

Set	Items	Description
S1	0	AU=(OSHINSKY D? OR OSHINSKY, D?)
S2	9088475	SOFTWARE OR APPLICATION OR PROGRAM?
S3	4151	(PHYSICAL OR STORAGE) (1N) ADDRESS?
S4	912988	BACKUP OR BACK()UP OR RETRIEV?
S5	841795	STORAGE? OR ARCHIVE?
S6	9607472	DATA OR INFORMATION OR INFO
S7	1348447	INDEX?? OR INDICES OR POINTER? ?
S8	4695054	MEDIA OR MEDIUM OR DEVICE?
S9	60	S3(10N) RECORD?
S10	6	S9(S)S4
S11	39196	S2(5N)MODUL?
S12	145	S11(20N) (INDEX? OR INDICE?)
S13	49605	S4(S)S5
S14	1008	S13 AND S11
S15	67	S14(30N) (INDEX? OR INDICE?)
S16	263	S9 OR S10 OR S12 OR S15
S17	87	S16 NOT PY>1999
S18	68	RD (unique items)
File	20:Dialog Global Reporter 1997-2004/Aug 20	
	(c) 2004 The Dialog Corp.	
File	476:Financial Times Fulltext 1982-2004/Aug 20	
	(c) 2004 Financial Times Ltd	
File	610:Business Wire 1999-2004/Aug 20	
	(c) 2004 Business Wire.	
File	613:PR Newswire 1999-2004/Aug 20	
	(c) 2004 PR Newswire Association Inc	
File	624:McGraw-Hill Publications 1985-2004/Aug 19	
	(c) 2004 McGraw-Hill Co. Inc	
File	634:San Jose Mercury Jun 1985-2004/Aug 19	
	(c) 2004 San Jose Mercury News	
File	810:Business Wire 1986-1999/Feb 28	
	(c) 1999 Business Wire	
File	813:PR Newswire 1987-1999/Apr 30	
	(c) 1999 PR Newswire Association Inc	

18/3,K/1 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

08837170 (USE FORMAT 7 OR 9 FOR FULLTEXT)
See's Candies Hits Record Online Holiday Sales With E-Commerce Powered by
UptimeOne
BUSINESS WIRE
December 22, 1999
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 784

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... and more than daily sales during the same time period in 1998.
e-businessOne's **software module** enables holiday shoppers to choose
from an **index** of candies listed in the "Candy Catalog." See's customers
benefit from this behind-the...

18/3,K/2 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

08497072 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Asyst Technologies Introduces New Reticle Management System; Shrinking
Geometries Create New Market for Reticle Manipulation and Protection
Platforms
BUSINESS WIRE
December 01, 1999
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 876

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... RMS components include Asyst minienvironment and isolation
technology, Asyst robotics for reticle handling, the Asyst **Indexer**
front-end and Asyst graphical user interface **software**. The components
are all **modules** designed and manufactured by Asyst, enabling the company
to offer a cost-effective solution that...

18/3,K/3 (Item 3 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

08061922 (USE FORMAT 7 OR 9 FOR FULLTEXT)
EMC: New EMC ControlCentre software delivers ground breaking management of
enterprise wide information
M2 PRESSWIRE
November 03, 1999
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1072

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Stock Exchange under the symbol EMC, and is a component of the S&P
500 **Index**. For further information about EMC and its **storage** solutions,
EMC's corporate web site can be accessed at <http://www.EMC.com>.
EMC...

18/3,K/4 (Item 4 from file: 20)
DIALOG(R) File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

07958652 (USE FORMAT 7 OR 9 FOR FULLTEXT)
EMC: New EMC ControlCenter software delivers ground-breaking management of enterprise-wide info
M2 PRESSWIRE
October 27, 1999
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1148

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Stock Exchange under the symbol EMC, and is a component of the S&P 500 Index. For further information about EMC and its **storage** solutions, EMC's corporate web site can be accessed at <http://www.EMC.com>.
This...

18/3,K/5 (Item 5 from file: 20)
DIALOG(R) File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

07932405 (USE FORMAT 7 OR 9 FOR FULLTEXT)
New EMC ControlCenter Software Delivers Ground-Breaking Management of Enterprise-Wide Information
BUSINESS WIRE
October 26, 1999
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1213

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Stock Exchange under the symbol EMC, and is a component of the S&P 500 Index. For further information about EMC and its **storage** solutions, EMC's corporate web site

18/3,K/6 (Item 6 from file: 20)
DIALOG(R) File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

06829690 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Human Resources Development in library and information science
HINDU
August 21, 1999
JOURNAL CODE: FGIN LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1364

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... are to be introduced at various levels of the academic programme: Database development, Thesaurus construction, **Indexing** system, Information **storage** & **retrieval**, Management of conservation & library, Computer aided library & information systems, Information analysis and consolidation, Inter-library...

18/3,K/7 (Item 7 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

06556640 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Atlantis: ImageSoft's Intelligent Forms Processing and Workflow Solution; Document Capture, ICR, Verification, and Workflow Add To ImageSoft's Image-Based Product Lines
BUSINESS WIRE
August 05, 1999
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 656

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... customer care and research, or fraud detection.
Atlantis is comprised of a variety of integrated **software modules** which automate the capture, **indexing**, and subsequent processing of forms and documents of all types -- from time cards, signature cards...

18/3,K/8 (Item 8 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

05840195 (USE FORMAT 7 OR 9 FOR FULLTEXT)
LUCENT TECHNOLOGIES: Lucent announces wireless comms system for small to medium-sized businesses
M2 PRESSWIRE
June 21, 1999
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 434

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... 10 to 1000 ports. It is modular and scalable, using the same hardware components and **software modules** for all system sizes. This ensures that **INDeX** configures to meet the exact capacity and functionality required by each customer and can be...

18/3,K/9 (Item 9 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

05679966 (USE FORMAT 7 OR 9 FOR FULLTEXT)
ABES moves to Internet delivery
Feona J Hamilton finds out why Swets has moved one of its major CD-ROM products onto the Web.
INFORMATION WORLD REVIEW, p8
June 01, 1999
JOURNAL CODE: WIWR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 579

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... conceivable electronic platform, be that an intranet, the Internet, online, or via CD-ROM. The **software** consists of four separate **modules** : C- **INDEX** , C-HTML, C-SCREENS, and C-BROWSER.

Using CONTENT-EDITOR the user can define the...

... the fields can also be determined, along with which functionalities should be available to the application .

C- INDEX is the indexing module of the software and it tags every word in the database. C-HTML - which is compatible with Explorer...

18/3,K/10 (Item 10 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

05291686 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Ligand Reports First Quarter 1999 Results Initiates Commercialization of Panretin Gel and ONTAK and Signs Marketing Agreement With Ferrer Internacional

BUSINESS WIRE

May 12, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 1408

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Eli Lilly and Company agreed to focus their efforts on the Retinoid X Receptor (RXR) modulator second generation program , which has compounds with improved therapeutic indices relative to the three first generation compounds, and on co-agonists of the PPAR receptor...

18/3,K/11 (Item 11 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

05258268 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Print To Web Page Utility Developed By RVC

NEWSBYTES

May 10, 1999

JOURNAL CODE: FNEW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 404

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... The package's archive function creates a structured XML archive direct from QuarkXpress documents.

The software SiteBuilder module then constructs navigation indexes directly from the structure of these XML documents, and gives publishers the freedom to design...

18/3,K/12 (Item 12 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

05174280 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Intergraph and BASF Corp. Sign \$995,000 Sales Contract for INtools Software
BUSINESS WIRE

May 03, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 692

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... software provides design and data consistency checks that reduce errors and improve data accuracy.

The software suite includes integrated modules for instrument indexes, specifications, process data, calculation, wiring, loop drawings, hook-ups, calibration and maintenance. Using Oracle(R...

18/3,K/13 (Item 13 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04807609 (USE FORMAT 7 OR 9 FOR FULLTEXT)

New Online Technology Converts Mystery of Instinct into Manageable Asset
PR NEWSWIRE
March 30, 1999
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 719

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... subgrouping, changing assignments, and pulling in differing capabilities from outside a formal team structure. This software includes a database management system module for all Kolbe results, which allows companies to score, store, and sort all forms of the Kolbe index, and to track the applications by employee and job titles. Analyses provide insights for strategic...

18/3,K/14 (Item 14 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04665536 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Radian Systems, Inc. Releases XML-Based Products: WSDOM XML-Xpress(TM) and WSDOM XML-Portal(TM)
PR NEWSWIRE
March 17, 1999
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 506

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... State of Texas Office of the Comptroller, First Trust, Veterans Business Administration, among others. The software is based on modular Windows NT clients that perform Image Enhancement, Quality Assurance, Rework, OCR, Indexing and Export to various document management systems such as Eastman Software, FileNet, Optika, and PC...

18/3,K/15 (Item 15 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04491080 (USE FORMAT 7 OR 9 FOR FULLTEXT)

LUCENT: Lucent announces INDEX 1000 a higher capacity version of marketleading com system
M2 PRESSWIRE

March 01, 1999
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 545

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... to over 1000 ports. It is modular and scalable using the same hardware components and **software modules** for all system sizes, ensuring that INDeX configures to meet the exact capacity and functionality required by each customer and can be...

18/3,K/16 (Item 16 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04375627 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Ligand Receives Lilly Notice Not to Proceed with Targretin Development in Diabetes; Accelerates RXR Modulator 2nd Generation and PPAR Co-Agonist Programs

BUSINESS WIRE

February 18, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 835

...in diabetes.

Instead, Lilly and Ligand have agreed to focus their efforts on the RXR **modulator** second generation **program** , which has compounds with improved therapeutic **indices** relative to the three first generation compounds, and on co-agonists of the PPAR receptor...

18/3,K/17 (Item 17 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04115461 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Intergraph Acquires PID, Maker of INtools Instrumentation Software

BUSINESS WIRE

January 25, 1999

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 719

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... experience and commitment."

INtools Suite Increases Productivity, Improves Accuracy

The INtools instrumentation design and engineering **software** suite includes integrated **modules** for instrument **indexes** , specifications, process data, calculation, wiring, loop drawings, hook-ups, calibration and maintenance. The software features...

18/3,K/18 (Item 18 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04063633 (USE FORMAT 7 OR 9 FOR FULLTEXT)
language Processor Technology Was Commercialized
KOREA TIMES

January 20, 1999
JOURNAL CODE: WKOR LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 165

... a company specializing in natural language processing revealed Jan.19th that it put the commercialized **software module** , "MORAN-DCP Series" which performs the conversion between Korean and Chinese character, the preparation and management of a dictionary, auto **indexing** , spelling check, summary, sample sentence extraction and document classification automatically.

18/3,K/19 (Item 19 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

04053801 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Radian Systems, Inc. Promotes Mark Mandel to Vice President
PR NEWSWIRE
January 19, 1999
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 386

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... image deskew and auto-rotation. Another Radian application, WSDOM(TM), is an automated image processing **application** based on **modular** Windows NT clients for Image Enhancement, Quality Assurance, Rework, OCR, **Indexing** and Export to various image document management systems such as Eastman Software, FileNet, Optika, and...

18/3,K/20 (Item 20 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

03942693 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Indigita Corp. Announces FireDAT, Industry's First FireWire Interface DAT
Designed for the Apple Macintosh
BUSINESS WIRE
January 07, 1999
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 452

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... is the only removable storage peripheral with the features, capacity, performance and price to effectively **address** data **storage** , real-time audio/video **recording** and playback, Web site caching and educational applications. The FireDAT efficiently handles streaming audio and...

18/3,K/21 (Item 21 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

03923278 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Peter Abzug Named Marketing Manager at Radian
PR NEWSWIRE

January 05, 1999

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 339

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... image deskew and auto-rotation. Another Radian application, WSDOM(TM), is an automated image processing application based on modular Windows NT clients for Image Enhancement, Quality Assurance, Rescan, OCR, Indexing and Export to various image document management systems such as Eastman Software, FileNet, Optika, and...

18/3,K/22 (Item 22 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

03704410

All charged up

Sue Lowe

ABIX - AUSTRALASIAN BUSINESS INTELLIGENCE (SYDNEY MORNING HERALD) , p5
December 05, 1998

JOURNAL CODE: WSMH LANGUAGE: English RECORD TYPE: ABSTRACT
WORD COUNT: 106

...a record of all your online purchases. It is a good idea to keep a record the company's physical address and phone and fax details. Make sure that you print out a copy of your...

18/3,K/23 (Item 23 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

03092844

InCert Software Debuts Industry's First Quantitative Software Certification Solution for High-Volume, Downstream Testing

PR NEWSWIRE

October 13, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 683

... Examiner, development, testing and quality assurance professionals will obtain a set of quantitative test coverage indices that measure and help certify the level of testing for each module in an application. Unlike other products, Examiner works with the executable application components, rather than the source code...

18/3,K/24 (Item 24 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

03075039

POET Customers Join Forces With POET to Launch the 'Powered by POET' Branding Program

PR NEWSWIRE

October 12, 1998

JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 870

... Kodak Digital Science scanners. WorldScan Distributed Object Manager(TM) (WSDOM) is an automated image processing application based on **modular** Windows NT clients for Import, Enhancement, Quality Assurance, Rescan, OCR, Forms Processing, **Indexing** and Export. With a revolutionary object-oriented architecture, WSDOM has the highest versatility, throughput capacity...

18/3,K/25 (Item 25 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

02577185 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Input Software Announces First Shipments of InputAccel 2.0; Next Generation Document Capture Product Available to Customers
BUSINESS WIRE
August 19, 1998
JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 578

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... multiple workstations.
New and Upgraded Modules Enhance Functionality
InputAccel 2.0 includes new and improved **software modules** :
-- InputAccel/ **Index** and InputAccel/Export for IBM ImagePlus(R)
MVS/ESA(R) -- were specifically designed to provide...

18/3,K/26 (Item 26 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

02143602 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Lhs Group And Bell Sygma Announce Global Marketing Partnership
CANADA NEWswire
June 12, 1998 16:45
JOURNAL CODE: WCNW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 539

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... symbol, are included in The Toronto Stock Exchange's TSE 300 Composite and TSE 200 **indexes** . Web site address: www.cgi.ca.
LHS is a leading provider of convergent client/server **modular** customer care and billing **software** and services for the telecommunications industry, with over 100 installations in more than 50 countries...

18/3,K/27 (Item 27 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

01646696 (USE FORMAT 7 OR 9 FOR FULLTEXT)
TOWER TECHNOLOGY: Tower Technology launches knowledge management strategy
M2 PRESSWIRE
May 15, 1998
JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 621

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... corporate information."

At the centre of the Tower Knowledge Management solution is a set of **software modules** that can include imaging, COLD, object management and workflow integration, in an architecture developed for WAN deployment. All 'knowledge objects' can be stored, **indexed** and classified, and retrieved within a consistently high performance, high volume environment.

The Tower System...

18/3,K/28 (Item 28 from file: 20)

DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

01569096 (USE FORMAT 7 OR 9 FOR FULLTEXT)

IMR Announces Support for Pioneer DVD-Recordable Products; Alchemy Provides First Document Archival and COLD Solutions Utilizing DVD

BUSINESS WIRE

May 06, 1998 11:55

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 849

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...archival and computer report distribution. With Alchemy support for Pioneer DVD-R, document systems, information **retrieval** and knowledge management applications will now have fast, **indexed** access to enormous amounts of valuable business documents safely stored on write-once DVD-Recordable...

... platter is 3.95 Gigabytes. With Alchemy's intelligent data compression and highly compressed text **indexes**, one platter can now hold up to 200,000 scanned pages with **indexed** OCR text for fast **retrieval**. In a COLD application, the same disc can also hold up to 8 million ASCII mainframe records along with form overlays. Up to 100 Alchemy DVD-R discs containing fully **indexed** and compressed COLD reports can be stored in the new Pioneer DVD-ROM jukebox, creating...

18/3,K/29 (Item 1 from file: 476)

DIALOG(R)File 476:Financial Times Fulltext
(c) 2004 Financial Times Ltd. All rts. reserv.

0008529974 BOGA1BAAEGFT

Weekend Money (Financial Planning): What to choose, and where - Investment software

PAUL TAYLOR

Financial Times, P VII

Saturday, January 27, 1996

DOCUMENT TYPE: NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
Word Count: 397

...products which let purchasers 'trade-up' or add additional modules as they become more sophisticated. **Indexia** 's technical analysis packages can be augmented by adding options or optimisation **modules** .

Other established suppliers include Meridian **Software**, Portfolio Control, Share Genius, Triumvirate Technology and Dolphin Software. Its

Share-tracker software is designed...

18/3,K/30 (Item 2 from file: 476)
DIALOG(R)File 476:Financial Times Fulltext
(c) 2004 Financial Times Ltd. All rts. reserv.

0008510540 BOGEKABADBFT
Investment: Making software work: Stock-picking
Financial Times, London Edition 1 ED, P 7
Saturday, May 11, 1996
DOCUMENT TYPE: Features; NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE:
FULLTEXT
Word Count: 1,013

...Another benefit of advanced technical analysis products - such as Synergy's Sharemaster 2 Advanced and **Indexia**'s **Indexia** 2 Plus - is that option pricing **software modules** can be bolted on to the system.

These do not chart the prices of particular...

18/3,K/31 (Item 3 from file: 476)
DIALOG(R)File 476:Financial Times Fulltext
(c) 2004 Financial Times Ltd. All rts. reserv.

0003025137 B06KSBUABDFT
Arts: Review of 'Guarneri Quartet' at the Elizabeth Hall
ANDREW CLEMENTS
Financial Times, P 15
Tuesday, January 29, 1985
DOCUMENT TYPE: NEWSPAPER LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
Word Count: 342

TEXT:
...approach to music making that has not changed in essence either; the sheer ebullience and **physical address** of its early **recorded** performances may have been tempered, but a somewhat dry, springy touch and sharp rhythmic bite...

18/3,K/32 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications
(c) 2004 McGraw-Hill Co. Inc. All rts. reserv.

0613187
Monitoring powerplant performance: With the increasing sophistication of monitors and instruments--backed up by microprocessors, computers, software, distributed controls, and networks--performance monitoring has become invaluable for maintaining powerplant efficiency
POWER October, 1994; Pg 15; Vol. 138, No. 10
Journal Code: POW ISSN: 0032-5929
Section Heading: SPECIAL REPORT
Word Count: 3,563 *Full text available in Formats 5, 7 and 9*

BYLINE:
Thomas C Elliott, Senior Editor, and Robert Swanekamp, PE, Associate Editor

TEXT:
... fired powerplants.4 It works with data obtained through plant

instrumentation and a set of software modules to compute performance and efficiency indices . These indices provide measures of such parameters as overall unit heat rate, turbine-cycle heat rate, component...

18/3,K/33 (Item 1 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2004 San Jose Mercury News. All rts. reserv.

05020250
LEGISLATORS DRIVEN TO COMPLAIN MERCURY NEWS ASKS FOR DMV RECORDS
SAN JOSE MERCURY NEWS (SJ) - Tuesday, March 14, 1989
By: NORA ZAMICHOW, Mercury News Staff Writer
Edition: Stock Final Section: Front Page: 1A
Word Count: 560

... extended to the general public, said the department's legislative liaison officer, Terry Wilson.

The records available to the public include driving violations, home addresses and physical descriptions of drivers.

The Republican leader in the Assembly, Ross Johnson of Fullerton, said he...

18/3,K/34 (Item 2 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2004 San Jose Mercury News. All rts. reserv.

05019905
MN ASKS TO SEE DRIVING RECORDS; LEGISLATORS OUTRAGED
SAN JOSE MERCURY NEWS (SJ) - Tuesday, March 14, 1989
By: NORA ZAMICHOW, Mercury News Staff Writer
Edition: Morning Final Section: Front Page: 1A
Word Count: 611

... extended to the general public, said the department's legislative liaison officer, Terry Wilson.

The records available to the public include driving violations, home addresses and physical descriptions of drivers.

The Republican leader in the Assembly, Ross Johnson of Fullerton, said he...

18/3,K/35 (Item 3 from file: 634)
DIALOG(R)File 634:San Jose Mercury
(c) 2004 San Jose Mercury News. All rts. reserv.

03053313
LADIES AND GENTLEMEN, THE LOSER IS . . . SOFTWARE REVIEWERS FIND NO SHORTAGE OF IMPERFECT PRODUCTS
SAN JOSE MERCURY NEWS (SJ) - Sunday, December 1, 1985
By: LISA RALEIGH, Mercury News Computing Editor
Edition: Morning Final Section: Computing Page: 14F
Word Count: 1786

... editor/West Coast, nominated this set of programs, designed for the

busy, modern gal. Its **modules** include a checkbook balancer, budget program , index filer, address directory, calendar and recipe program.

The software came on a little hanger and...

18/3,K/36 (Item 1 from file: 810)
DIALOG(R) File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0849115 BW0025

INPUT SOFTWARE 3: Input Software Announces 2.0 Release of InputAccel; Document Capture Made Easy

May 11, 1998

Byline: Business Editors/Technology Writers

...server capability.
Additional Modules Enhance Functionality.

InputAccel 2.0 also includes four new 32-bit **software modules** :
-- InputAccel/ **Index** and InputAccel/Export for IBM ImagePlus(R)
MVS/ESA(R) - these two modules provide ImagePlus...

...product with a seamless
replacement that requires no changes in the IBM host system. The
Index module communicates directly with the Folder **Application**
Facility (FAF) front end of MVS, and can be configured to allow
index data entry either on or off line. The Export module outputs
document data directly to...

18/3,K/37 (Item 2 from file: 810)
DIALOG(R) File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0800717 BW0306

CROSS TALK COMM: Cross/Talk Communications, Inc. Launches TANGO
Communications Solution; The First Fully Integrated Computer Telephony
Application

January 27, 1998

Byline: Business Editors

...user to send and receive faxes and e-mails
and an added ability of web **address storage** . The system will also
allow a user to **record** a web address or e-mail address into the
program. The user may map a...

18/3,K/38 (Item 3 from file: 810)
DIALOG(R) File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0794748 BW0066

ELEKTROSON: Westbrook Technologies and Elektroson Team to Integrate GEAR.wrks With CDExpress Software

January 14, 1998

Byline: Business Editors/High Tech Writers

...About CDExpress

CDExpress allows users to put a File Magic or Fortis database, along with **indices**, query sets and viewer **module** of the **software** onto a CD for distribution. Prior to the inclusion of GEAR.wrks, the typical CD...

18/3,K/39 (Item 4 from file: 810)

DIALOG(R)File 810:Business Wire
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0768964 BW1272

INFORMATION MGMT RESEAR: IMR Announces Alchemy 5.0 Information Storage & Access Solution for Windows NT & 95

November 05, 1997

Byline: Business Editors

...information, all stored on inexpensive media. The products require no administrative overhead - information is automatically **indexed** as it is saved."

Pricing and Availability

Alchemy 5.0 and all its **application** -specific plug-in **modules** will ship in December. Pricing starts at around \$4,000 for a base system consisting...

18/3,K/40 (Item 5 from file: 810)

DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0767535 BW1418

INFORMATION MGMT RESEAR: IMS Announces Alchemy 5.0 Information Storage & Access Solution for Windows NT & 95

November 03, 1997

Byline: Business Editors

...information, all stored on inexpensive media. The products require no administrative overhead - information is automatically **indexed** as it is saved."

Pricing and Availability

Alchemy 5.0 and all its **application** -specific plug-in **modules** will ship in December. Pricing starts at around \$4,000 for a base system consisting...

18/3,K/41 (Item 6 from file: 810)

DIALOG(R)File 810:Business Wire

(c) 1999 Business Wire . All rts. reserv.

0743578 BW1213

HITACHI: Hitachi Develops 4.7 GB DVD-RAM Technology

September 09, 1997

Byline: Business Editors

...0.74 microns
Track format Wobbled Land Wobbled Land A Series of
Physical address & Groove & Groove Pits
its Embossed pits Embossed pits Embossed p
Recording code 8 to 16, RLL(2,10) 8 to 16, RLL (2,10) 8 to...

18/3,K/42 (Item 7 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0683838 BW1081

INFO MGMT RESEARCH: IMR announces CAD2CD storage solution for AutoCAD; new Windows software improves CAD file storage, access, distribution & archival

March 24, 1997

Byline: Business Editors/Computer Writers

...R) workstation: Scan2CD, COLD2CD, and File2CD. Each module works with IMR's award-winning Alchemy **storage** and **retrieval** software for **indexing**, CD-Recording and retrieval. Modules can be mixed and matched for more solutions. IMR is also developing more **application** -specific 2CD **modules** to be released over the next twelve months, for Adobe Acrobat PDF files, e-mail...

18/3,K/43 (Item 8 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0665624 BW1072

ADVANCED VISUAL SYS: Advanced Visual Systems awarded an EC ESPRIT project led by British aerospace

January 27, 1997

Byline: Business/Technology Editors

...design, flexible data structure, and already proven techniques for visualizing very large data sets.

The **INDEX** project will produce the **INDEX** Toolset, which will be a portable **modular** **software** library providing an integrated **software** solution to the problem of increased data set size from engineering simulation. The software will...

18/3,K/44 (Item 9 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0647710 BW0184

EXCALIBUR INFORMIX: Informix and Excalibur announce three new revolutionary DataBlade modules for the Informix Universal Server

November 20, 1996

Byline: Business Editors/Computers & Electronics Writers

...eyes, the nose, the mouth,
etc. Spatial relationships between such features are also measured
and **indexed** .

A typical **application** for the FaceRecognition DataBlade **module**
would be in a secured or controlled access environment where entry to
a particular room...

18/3,K/45 (Item 10 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0644447 BW0026

INFORMIX ISOQUEST: IsoQuest Develops NameTag DataBlade Module For Informix-Universal Server

November 13, 1996

Byline: Business Editors & Computer Writers

...their documents. This allows the system to search for documents
in their contextual form. The **index** that is produced can be
manipulated from the client side, or stored within the Informix
server. Application developers also gain the ability to use
server-side DBMS features for **storage** and retrieval.

The NameTag DataBlade module will allow application developers to
store document types (either...).

18/3,K/46 (Item 11 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0623163 BW0123

INFO MGMT RESEARCH 1: IMR announces product strategy to deliver application-specific storage management solutions to the commercial market; new 2CD software family improves information access and enables CD-R storage

September 16, 1996

Byline: Business and High Tech Editors

...drives, announced today a new product suite and strategy that simplifies business storage management through **application** -specific **software modules** that work with IMR's award-winning Alchemy **indexing**, search and retrieval engine, and provide unique business solutions for storing and retrieving information on... X

...using tape. (Available Now)

SCAN2CD: Scanning paper into digital images requires an immense amount of **storage**. **Indexing** them for quick **retrieval** is time-consuming and current solutions are expensive. SCAN2CD scans paper to CD-R more efficiently and cost-effectively while providing **indexed** retrieval based on any text and metadata. (Available Now - See Separate Announcement Released Today)

CAD2CD...

18/3,K/47 (Item 12 from file: 810)

DIALOG(R) File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0608527 BW1170

FILENET: FileNet Delivers Document Warehouse for SAP for Microsoft NT Environments; Provides document-archiving solution for SAP R/3 system on fast-growing platform

July 29, 1996

Byline: Business Editors

...Warehouse for SAP. Fax documents and data files, such as CAD drawings, can also be **archived**, **indexed** within R/3, and **retrieved** instantly. With FileNet Document Warehouse for SAP, documents and data stored on magnetic and optical...

18/3,K/48 (Item 13 from file: 810)

DIALOG(R) File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0599223 BW0329

INFORMIX: Informix Integrates Excalibur RetrievalWare Into Informix-Universal Server; Informix Strengthens Competitive Advantage With Advanced DataBlade Technology For Text and Visual Information Retrieval

June 27, 1996

Byline: Business Editors/Computer Writers

...categorization of search results based on personalized interest; an intelligent Web and Server crawler and **indexer**, and advanced security features.

Excalibur has created a dedicated, Informix DataBlade snap-in technology release team, chartered to deliver these **modules**.

About Informix

Informix **Software**, based in Menlo Park, provides innovative database technology that enables the world's leading corporations...

18/3,K/49 (Item 14 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0582294 BW0045

INFORMIX: Informix's Illustra Database Chosen for Second Phase of NASA's "Mission to Planet Earth"; Informix To Provide 4D Spatial Modeling and Other Complex Data Management for One of the World's Largest and Most Complex Information Systems

May 06, 1996

Byline: Business Editors/Computer Writers

...part of its contract with the EOSDIS project, Informix will develop a 4D Spatial DataBlade **software module** that will support longitude, latitude, height and time -- as well as easy **indexing** of those disparate information types. Up until now, scientists have had no effective way to...

18/3,K/50 (Item 15 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0570713 BW1178

OPTIKA: Optika Announces New Document Imaging Software Suite for Healthcare Providers

April 01, 1996

Byline: Business Editors

...software uses Optika's document imaging and information services, computer report processing and workflow management **software** . MediPower **software modules** include: MPregister, an automated patient registration application; MPindex, a batch scanning application with automated **indexing** ; MPbridge, an HL7/ADT interface; MPacquire, for automatic acquisition and filing from HIS; MPpremit, an...

18/3,K/51 (Item 16 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0570268 BW1030

INTERTECH IMAGING 2: Action Technologies and InterTech Imaging Corp. Announce A Cooperative Marketing Relationship

March 29, 1996

Byline: Business Editors

...today a cooperative sales and marketing relationship.

DocuPACT by InterTech Imaging is an award-winning **modular** document management **software** system for capturing, **indexing**, storing, retrieving, viewing, annotating and securing documents. Action Technologies' Action Workflow(r) is a suite...

18/3,K/52 (Item 17 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0534557 BW1414

INTELLAGENT: IntellAgent Control releases version 2.2 of the IntellAgent Control Sales Force Automation System

November 14, 1995

Byline: Business Editors

...document storage, linkages to external databases such as ACT!, software storage and distribution, and an **indexed** archive for competitive information. All **modules** are shipped with the core **program** at no extra cost to clients with maintenance agreements.

System Requirements, Availability and Pricing
The...

18/3,K/53 (Item 18 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0521653 BW1065

OPEN MARKET 2: Open Market hires four renowned Internet engineers to enhance development efforts

October 04, 1995

Byline: Business Editors

...Harrison worked at Digital Equipment Corporations Systems Research Center where he supported and enhanced the **Modula -3** **programming** environment. He most recently developed tools to build and query a full-text **index** of the World Wide Web. Before joining SRC, he worked as principal software engineer for...

18/3,K/54 (Item 19 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0476924 BW1032

KOFAX IBM: Ascent Capture from Kofax to be integrated with IBM Image WorkGroup

April 11, 1995

Byline: Business Editors & Computer Writers/High-Tech Writers

...said David Silver, Kofax president. "By increasing the efficiency with which users can QA and index scanned images, Ascent Capture dramatically lowers the ongoing cost of the document input process."

IBM WorkGroup is a portfolio of **modular**, customizable **software** functions that range from robust e-mail and document management to workflow. ImagePlus VisualInfo is...

18/3,K/55 (Item 20 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0465336 BW0030

STARFISH SOFTWARE 2: Starfish Software Ships Sidekick for Windows 2.0

February 21, 1995

Byline: Business Editors/Computer Writers

...0 brings together the power of the computer and the ease and convenience of familiar **index** cards and paper-based organizer systems. The **software**'s easy-to-use **modules** keep appointment schedules, manage addresses and phone numbers, create to-do lists, track phone calls...

18/3,K/56 (Item 21 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0450065 BW1096

UNISYS: Network Imaging and Unisys Corp. announce worldwide agreement for storage management software

December 09, 1994

Byline: Business Editors

...wide data management suite of software includes hierarchical object and file migration, secured backup/restore, **indexed** archiving, and multi-level administration. InfoStore is a new generation of integrated, **modular** **software** that addresses enterprise-wide network storage management requirements.

According to Carmin E. Lynch, Unisys vice...

18/3,K/57 (Item 22 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0444529 BW0024

EXABYTE 4: Exabyte announces shipment of its 7-gigabyte EXB-8505XL by OEMs worldwide; EXB-8505XL now also available through distribution

November 14, 1994

Byline: Business Editors/Computer Writers

...hardware data compression, which on average doubles capacity and transfer rate, the EXB-8505XL can **record** 14 gigabytes of data at 1 megabyte per second.

Further **addressing** the **storage** requirements of high-performance midrange systems, servers, workstations and PC LANs, the EXB-8505XL offers...

18/3,K/58 (Item 23 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0399103 BW718

FILENET 3: FileNet demonstrates Intelligent Character Recognition system at AIIM; powerful, accurate ICR system for document imaging applications

April 19, 1994

Byline: Business Editors & Computer/Electronics Writers

...PCs is available for application development and the post-processing functions of data repair, auto- **indexing** , image storage on optical disk and the export of ASCII data to a host system for subsequent processing.

The **application** development **module** allows users to define the specific areas to be read on forms and assign recognition...

18/3,K/59 (Item 24 from file: 810)
DIALOG(R)File 810:Business Wire
(c) 1999 Business Wire . All rts. reserv.

0163270 BW639

ALPHAREL INC: Alpharel Inc. introduces a cost-effective, entry-level solution for document and image management

February 13, 1990

Byline: Business Editors & Computer Science Writers

...level solution consists of Alpharel's proprietary software core, Image Utility, which controls the scanning, **indexing** , **retrieval** and **storage** of documents and information, and special applications software geared toward the user's specific needs. By combining the IBM Enterprise System/9370 and Alpharel's **modular** open architecture **application** , the user obtains an affordable departmental image solution today which allows for future expansion within...

18/3,K/60 (Item 25 from file: 810)
DIALOG(R)File 810:Business Wire
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0032108 BW609

SYSTEMED: SysteMed announces software services agreement with Group Health Cooperative of Puget Sound

December 9, 1986

Byline: Business Editors/Medical Writers

...on-site system professionals."

Group Health Cooperative currently uses a fully integrated selection of MCIS **software modules**, including User Security, Master Patient **Index**, Financial Evaluation/Insurance, ADT (admission, discharge, transfer), Patient Census, Medical Records Abstracting, Tumor Registry, ICD9...

18/3,K/61 (Item 1 from file: 813)

DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1163736 LATU013
CADIS Joins Oracle's Cooperative Application Initiative(SM) Program

DATE: October 7, 1997 08:02 EDT WORD COUNT: 776

... Oracle Manufacturing and Oracle Engineering applications to share business attribute information with the CADIS-PMX **application** for related **modules**, as well as launch one **application** from the other. CADIS-PMX Parts Management eXpert adds an object data model **index** to the Oracle applications that organizes commodity information into categories and subcategories with associated attributes...

18/3,K/62 (Item 2 from file: 813)

DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1162737 NEM015
Datamedic Announces PMstation 3.0, Major Release of the Industry's Most Complete Practice Management Solution

DATE: October 6, 1997 06:59 EDT WORD COUNT: 1,141

...management information across an enterprise.

Included among the capabilities of PMstation are a master member **index** (MMI), an advanced collections **module** and enhanced configuration and installation **software** tools. Several best-of-breed industry software components, including an enterprise scheduler, a managed care...

18/3,K/63 (Item 3 from file: 813)

DIALOG(R)File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1159224 LAM023
INFOCON AMERICA Signs License Agreement With Adobe Systems

DATE: September 29, 1997 09:03 EDT WORD COUNT: 582

... Adobe Systems Incorporated. INFOCON AMERICA will integrate Acrobat 3.0

into its InfoLink Publishing Enhancement **Software** (TM) **module**. The InfoLink **software** is an integrated electronic publishing software solution to convert, enhance, edit, **index**, archive and secure publications in Adobe's Portable Document Format (PDF). InfoLink enables publishers to...

... publications into the easy-to-read, full content electronic PDF format, the InfoLink Publishing Enhancement **Software** **module**, as part of the INFOCON AMERICA software solution, enables publishers to greatly enhance, edit, **index**, archive and secure publications for electronic distribution, or publish directly to the Internet. InfoLink includes...

18/3,K/64 (Item 4 from file: 813)

DIALOG(R) File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1115984 SFTU026
InfoSpace and INFOCON AMERICA Create Strategic Alliance

DATE: June 24, 1997 09:00 EDT WORD COUNT: 584

... books, newsletters and trade magazines in full color with many value-added features. The INFOCON **software** includes a **module** for publishers to add automated hyperlinks throughout an electronic publication or multiple publications; link the Table of Contents, **index**, and related information; verify and audit links in the publication; add direct links to web...

18/3,K/65 (Item 5 from file: 813)

DIALOG(R) File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

1069648 NEM027
Workstation Solutions Announces Quick Restore Backup and Recovery System for Windows NT and DEC Alpha

DATE: March 17, 1997 12:23 EST WORD COUNT: 845

... leading tape drives by exploiting a hardware feature called "direct-to-block positioning." During the **backup** process, the **physical** block **address** of each file on the **backup** tape is **recorded**. When Quick Restore restores the file, the tape spins at maximum speed to the exact...

18/3,K/66 (Item 6 from file: 813)

DIALOG(R) File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0725014 CH001
MEDIC COMPUTER SYSTEMS ANNOUNCES SECOND QUARTER EARNINGS

DATE: July 20, 1994 08:11 EDT WORD COUNT: 1,094

...results
from independent laboratories. AutoImage is a document imaging system that allows for the input, **indexing**, **storage** and **retrieval** of documents

that can create **storage** problems for medical practices. The Company also offers a managed care information system, EZ-CAP...

18/3,K/67 (Item 7 from file: 813)
DIALOG(R) File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0715307 SF012
STATE FISHING LICENSE FORMAT FOR 1995 WILL BE IMPROVED AND USER FRIENDLY

DATE: June 15, 1994 14:52 EDT WORD COUNT: 683

...be folded to fit into many
fishing license holders.

Like the license, the receipt will **record** the angler's name, **address**, and **physical** description. An angler who loses his or her license can take the receipt to any...

18/3,K/68 (Item 8 from file: 813)
DIALOG(R) File 813:PR Newswire
(c) 1999 PR Newswire Association Inc. All rts. reserv.

0696269 CH006
MEDIC COMPUTER SYSTEMS ANNOUNCES RESULTS

DATE: April 20, 1994 08:49 EDT WORD COUNT: 828

...results
from independent laboratories. AutoImage is a document imaging system
that allows for the input, **indexing**, **storage** and **retrieval** of
documents
that can create **storage** problems for medical practices. The Company
also offers a managed care information system, EZ-CAP...
?

Set	Items	Description
S1	4	AU=(OSHINSKY D? OR OSHINSKY, D?)
S2	11283401	SOFTWARE OR APPLICATION OR PROGRAM?
S3	8948	(PHYSICAL OR STORAGE) (IN) ADDRESS?
S4	1183549	BACKUP OR BACK()UP OR RETRIEV?
S5	1318619	STORAGE? OR ARCHIVE?
S6	16735278	DATA OR INFORMATION OR INFO
S7	907160	INDEX?? OR INDICES OR POINTER? ?
S8	5803216	MEDIA OR MEDIUM OR DEVICE?
S9	120	S3(10N) RECORD?
S10	26	S9(S)S2
S11	115670	S2(5N)MODUL?
S12	556	S11(20N) (INDEX? OR INDICE?)
S13	13	S12(S)ADDRESS?
S14	242	S12(S)S6
S15	21	S14(S)S8
S16	60	S10 OR S13 OR S15
S17	39	S16 NOT PY>1999
S18	32	RD (unique items)
S19	36	S18 OR S1
? show file		
File	9:Business & Industry(R)	Jul/1994-2004/Aug 18
	(c) 2004	The Gale Group
File	15:ABI/Inform(R)	1971-2004/Aug 20
	(c) 2004	ProQuest Info&Learning
File	16:Gale Group PROMT(R)	1990-2004/Aug 20
	(c) 2004	The Gale Group
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	(c)2004	The Gale Group
File	160:Gale Group PROMT(R)	1972-1989
	(c) 1999	The Gale Group
File	275:Gale Group Computer DB(TM)	1983-2004/Aug 20
	(c) 2004	The Gale Group
File	621:Gale Group New Prod.Annou.(R)	1985-2004/Aug 20
	(c) 2004	The Gale Group
File	636:Gale Group Newsletter DB(TM)	1987-2004/Aug 20
	(c) 2004	The Gale Group

19/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)
(c) 2004 The Gale Group. All rts. reserv.

1630506 Supplier Number: 01630506 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Consumer Demand for Online Health and Medical Info
(In response to the growing US "self-care" trend, many new media
initiatives are being designed on the Internet)

InterActive Consumers, v 3, n 8, p 1+

August 1996

DOCUMENT TYPE: Newsletter (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2680

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...advertisers? Because many sites embed user identification codes (or "cookies") in a user's browser **software**, the HealthMed Retriever may believe that the request was anonymous when, in fact, the site has **recorded** his or her name, email **address**, and **physical** location -- all without his or her knowledge or permission.

Therefore, the implicit "contract" between HealthMed...

19/3,K/2 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

01703607 03-54597

Imaging joins the mainstream of computing

Bosma, Mark

Document World v3n2 PP: 19-27 Apr/May 1998

ISSN: 1025-9228 JRNL CODE: DCMW

WORD COUNT: 3722

...TEXT: them, an object server to store the files and a library server to store the **indexes**. All popular scanner brands can be used to capture **information**, and users can import different office **application** file formats. A special **module** must be obtained for OCR, ICR, bar code scanning and batch processing for high volume scanning, and another one is required to integrate faxes. Documents can be stored on different **media** and on different servers at different locations so it is a fully scalable solution.

Documents...

19/3,K/3 (Item 2 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
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01254198 99-03594

Windows 95 can benefit HR

O Connell, Sandra E

HRMagazine v41n7 PP: 33-36 Jul 1996

ISSN: 1047-3149 JRNL CODE: PAD

WORD COUNT: 1465

...TEXT: error messages have icons providing access to detailed information: the type of error, the critical **address** in which the error occurred, and the **program module**.

"The ability to create a more extensive keyword **index** for hypertext help files is certainly a benefit to the less-experienced user," says Richard...

19/3,K/4 (Item 3 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00720160 93-69381
Amadeus takes on Sabre
Johnston, Marsha W
Software Magazine v13n9 PP: 36 Jun 1993
ISSN: 0897-8085 JRNL CODE: SMG
WORD COUNT: 728

...TEXT: improve on the traditional TPF technique for accessing data, which is simply to have the **physical address** for the **record**. "It makes it easier for the **programmer**. Instead of keeping the physical address, you can work more logically," Soldini said. "It's..."

19/3,K/5 (Item 4 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00622649 92-37751
Document Image Processing
Perkins, Simon
Industrial Management & Data Systems v92n2 PP: 17-20 1992
ISSN: 0263-5577 JRNL CODE: IDS
WORD COUNT: 2266

...TEXT: it into the application.

THE STORAGE MODULE

This process handles the storage of the index **data** record and the associated document image of course, (and its structure when appropriate) onto what is often a mixture of **media** --both optical and magnetic--depending upon document volumes, retrieval performance requirements, and document life cycles...

19/3,K/6 (Item 5 from file: 15)
DIALOG(R) File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00375037 87-33871
The Importance of a Strategic Plan in Office Information Systems
DePorter, Elden L.; Echols, Rosita M.
Computers & Industrial Engineering v13n1-4 PP: 230-232 1987
ISSN: 0360-8352 JRNL CODE: CIE

...ABSTRACT: problems, 4. the increasing trend of health and safety problems caused by automated equipment, 5. **records** management decisions that now must **address storage** form, medium, and retrieval scheme, 6.

lack of adequate training in new hardware and **software** , and 7. doubts about whether automation has paid off. ...

19/3,K/7 (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00362659 87-21493
Software Review: "IPC Property Management"
Boettcher, Douglas
Journal of Property Management v52n3 PP: 75-78 May/Jun 1987
ISSN: 0022-3905 JRNL CODE: JPM

...**ABSTRACT:** product comes with training files to help the purchaser learn the program; the manual, though **indexed** and divided into 2 main sections, seems inadequate. The **program** has 5 **modules** : 1. Income Properties, used for setting up properties and reporting, 2. Receivables, for all activities...

... for activities relating to property accounting, and 5. Support, for IPC system utilities and general **information** . The IPC Property Management System is intended for small-to- **medium** -sized property management firms working with apartments or small commercial buildings. The package is menu
...

19/3,K/8 (Item 7 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)
(c) 2004 ProQuest Info&Learning. All rts. reserv.

00131843 81-01597
80s Integration
Gutz, Art
Systems International v8n10 PP: 55-57 Oct 1980
ISSN: 0309-1171 JRNL CODE: ISS

...**ABSTRACT:** each master had exclusive use of the system bus. The architectural structure is designed for **modular** high level language **programming** . The **addressing** scheme consists of segment, base, **index** , and displacement components. A byte-oriented instruction stream operates with a 16 bit data bus...

19/3,K/9 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

05747177 Supplier Number: 50230504 (USE FORMAT 7 FOR FULLTEXT)
Metretek Expansion Provides Comprehensive Data Collection Solutions
Pipeline & Gas Journal, p100
July, 1998
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 909

... ECI is an absolute encoder index which provides for direct electronic transfer of meter reading **information** from a residential or commercial gas meter to a remote meter reading **device** or system (RMR) or an AMR system. The ECI absolute encoder directly reads the actual position

of the **index** odometer wheels when interrogated. There are no pulse outputs or memory **modules** to **program**. The ECI has no battery because the reading **device** provides all necessary power. The ECI provides an actual meter reading and an eight-digit...

19/3,K/10 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

04356313 Supplier Number: 46388836 (USE FORMAT 7 FOR FULLTEXT)

ISDN: PRIME For The Enterprise

Network Computing, p45

May 15, 1996

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 3631

... device. Please, good interfaces make everybody's life easier.

Now, back to our regularly scheduled **programming**. Setting up the WAN interface involved mapping a dial port call address (a remote location **record**) to a **physical port address**, associating network protocols and then grouping dial port addresses into multilink groups for channel aggregation...

19/3,K/11 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2004 The Gale Group. All rts. reserv.

03718862 Supplier Number: 45270579 (USE FORMAT 7 FOR FULLTEXT)

UNDER THE HOOD: THE HEWLETT-PACKARD MEDIASTREAM SERVER FOR SUPPLYING

VIDEO-ON-DEMAND

Computergram International, n2582, pN/A

Jan 17, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1171

... can be increased by adding new modules to the Video Transfer Engine. These modules are **data** streaming **devices** that get **information** onto the network and provide a network interface with the telecommunications environment. If the service...

...might be required. The Video Transfer Engine, which runs the HP-RT derivative, includes the **Data** Source for delivering the **data**. The Stream Controller controls the operation of the **Data** Source, of which there may be more than one. Its role is to bring the **Data** Sources together as if they are a single **media** server. The Stream Router enables scalability by making the multiple **Data** Sources appear to act as a single server and cuts out the need for a...

...Management modules carry out storage allocation of video material on the disks and maintains an **index** to the video material as well as its content and location. The Session Management **module** determines the connection of each **program** stream to a specific network stream. Together with the Network Services Management modules, it controls...

19/3,K/12 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2004 The Gale Group. All rts. reserv.

16567395 SUPPLIER NUMBER: 111829024
REDSBOOKS / Nonfiction. (Feature)
Oshinsky, David
International Herald Tribune, 16
Jan 3, 2004
ISSN: 0294-8052 LANGUAGE: English RECORD TYPE: Citation

Oshinsky, David

19/3,K/13 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

16032518 SUPPLIER NUMBER: 105557843
WATERGATE: BOOKS / Nonfiction. (Feature)
Oshinsky, David M.
International Herald Tribune, 18
July 18, 2003
ISSN: 0294-8052 LANGUAGE: English RECORD TYPE: Citation

Oshinsky, David M.

19/3,K/14 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

12742056 SUPPLIER NUMBER: 66535966
Web sites with Civil War lore are as popular as the battlefields. (includes
Valley Of The Shadow: Two Communities In The American Civil War, a CD-ROM
by Edward L. Ayers and Anne S. Rubin) (Statistical Data Included) (Review)
(book review)
Oshinsky, David M.
New York Times , Thu ed, col 3, D8(N) pG8(L)
Nov 2, 2000
DOCUMENT TYPE: Statistical Data Included Review ISSN: 0362-4331
LANGUAGE: English RECORD TYPE: Citation

Oshinsky, David M.

19/3,K/15 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

12529969 SUPPLIER NUMBER: 64842545
When Ellis Island was the only portal; a CD-ROM captures the flavor of many
journals to America. ('The Ellis Island Experience')
Oshinsky, David M.
New York Times , Thu ed, col 3, D10(N) pG10(L)
August 31, 2000
ISSN: 0362-4331 LANGUAGE: English RECORD TYPE: Citation

Oshinsky, David M.

19/3,K/16 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

10413787 SUPPLIER NUMBER: 21045738 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Capabilities guide... a special advertorial section for equipment manufacturers, service companies, gas marketers & contractors.

Pipeline & Gas Journal, v225, n7, p65(33)

July, 1998

ISSN: 0032-0188 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 15444 LINE COUNT: 01275

... or an AMR system. The ECI absolute encoder directly reads the actual position of the **index** odometer wheels when interrogated. There are no pulse outputs or memory **modules** to **program**. The ECI has no battery because the reading **device** provides all necessary power. The ECI provides an actual meter reading and an eight-digit...

19/3,K/17 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

09851995 SUPPLIER NUMBER: 19959778 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IMS Announces Alchemy 5.0 Information Storage & Access Solution for Windows NT & 95.

Business Wire, p11031418

Nov 3, 1997

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1691 LINE COUNT: 00147

... information, all stored on inexpensive media. The products require no administrative overhead - information is automatically **indexed** as it is saved."

Pricing and Availability

Alchemy 5.0 and all its **application** -specific plug-in **modules** will ship in December. Pricing starts at around \$4,000 for a base system consisting...

19/3,K/18 (Item 7 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

09848666 SUPPLIER NUMBER: 19953844 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IMR Announces Alchemy 5.0 Information Storage & Access Solution for Windows NT & 95.

Business Wire, p11051272

Nov 5, 1997

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1691 LINE COUNT: 00147

... information, all stored on inexpensive media. The products require no administrative overhead - information is automatically **indexed** as it is saved."

Pricing and Availability

Alchemy 5.0 and all its **application** -specific plug-in **modules** will ship in December. Pricing starts at around \$4,000 for a base system consisting...

19/3,K/19 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

09644395 SUPPLIER NUMBER: 16956403 (USE FORMAT 7 OR 9 FOR FULL TEXT)
EDN's 1995 DSP-chip directory. (general-purpose digital signal processing
chips) (Directory)
Levy, Markus; Leonard, James P.
EDN, v40, n10, p40(25)
May 11, 1995
DOCUMENT TYPE: Directory ISSN: 0012-7515 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 16708 LINE COUNT: 01317

... of the chip I/O can be reallocated to provide parallel-port
capabilities.

Addressing modes -- **Indexed**, base, immediate, circular **modulo**,
program counter relative.

Special instructions -- Bit manipulation, log base 2, many types of
compare instructions. Mwave...

19/3,K/20 (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

08928018 SUPPLIER NUMBER: 18540527 (USE FORMAT 7 OR 9 FOR FULL TEXT)
16-bit. (EDN DSP Directory)
EDN, v41, n5, p51(14)
March 1, 1996
ISSN: 0012-7515 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 13459 LINE COUNT: 01062

... of the chip I/O can be reallocated to provide parallel-port
capabilities.

Addressing modes - **Indexed**, base, immediate, circular **modulo**,
program counter relative.

Special instructions - Bit manipulation, log base 2, many types of
compare instructions. Mwave...

19/3,K/21 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

08208198 SUPPLIER NUMBER: 17624341 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Pipeline. (Hardware) (Window Manager) (Tutorial) (Column)
Livingston, Brian
InfoWorld, v17, n42, p43(2)
Oct 16, 1995
DOCUMENT TYPE: Tutorial Column ISSN: 0199-6649 LANGUAGE: English
RECORD TYPE: Fulltext; Abstract
WORD COUNT: 668 LINE COUNT: 00055

... is a document capture subsystem that is made up of a number of
hardware and **software modular** components and supports scanners,
displays, printers, and storage **devices**. DMAC's Unibase Imaging software
supports **indexing**, **data** capture, and optical character recognition.
(703) 667-4695.

VideoLogic Inc. has expanded its line of...

19/3,K/22 (Item 11 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

07704697 SUPPLIER NUMBER: 16530025 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Starfish Software Ships Sidekick for Windows 2.0.
Business Wire, p02210030
Feb 21, 1995
LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1168 LINE COUNT: 00096

... paper-based organizer systems. The software's easy-to-use modules keep appointment schedules, manage **addresses** and phone numbers, create to-do lists, track phone calls and more. Beta users have...

19/3,K/23 (Item 12 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

06771704 SUPPLIER NUMBER: 14795339 (USE FORMAT 7 OR 9 FOR FULL TEXT)
The development of indexing technology.
Chang, Roy
Library Software Review, v12, n3, p30(6)
Fall, 1993
ISSN: 0742-5759 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 5151 LINE COUNT: 00371

... through a randomization or hashing routine. A hashing routine is an algorithm for transforming a **record** key value into a **storage address** key. Hopefully, with this algorithm, these **records** will be uniformly distributed over the designated storage space. This way, certain tracks will not...

...find the record in question. The address created with the direct access method is a **physical address** because that is where the **record** is stored.

With DAM, the storage area is divided into a primary data area and...

19/3,K/24 (Item 13 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2004 The Gale Group. All rts. reserv.

05167087 SUPPLIER NUMBER: 10820010 (USE FORMAT 7 OR 9 FOR FULL TEXT)
IBM ImagePlus announcements. (introduces 3995 WORM products, other software and hardware) (product announcement)
Computergram International, n1692, pCGI06070011
June 7, 1991
DOCUMENT TYPE: product announcement ISSN: 0268-716X LANGUAGE:
ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 908 LINE COUNT: 00079

... is a CICS front-end module which enables object capture, storage on disk and optical **media**, and online distribution through the MVS/ESA SNA network. Available June 28, costs for processor...

19/3, K/25 (Item 1 from file: 160)
DIALOG(R) File 160: Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.

01593909

Firm Unveils Zebra Supermicro, Office Software, Workstation.
INFOWORLD March 30, 1987 p. 23

... as input/output coprocessors to support up to 256 concurrent users. The new Zebra Office **program** has 14 integrated **modules**, including electronic mail, **address** directory, diary, **indexing**, teleconferencing, database management, spreadsheet, and word processing functions. The new Zebra Workstation software permits PCs...

19/3, K/26 (Item 1 from file: 275)
DIALOG(R) File 275: Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01655402 SUPPLIER NUMBER: 16253600

Contact managers that sell. (TeleMagic Inc's TeleMagic, TeLeVell Sales Solutions' TeleSell Salesperson Module 4,02, WinSales Inc's WinSales 2.0 contact management software) (sidebar to "Mucho Tasks? Get a Macho PIM") (Software Review) (Evaluation)

Powell, James E.

Windows Magazine, v5, n9, p264(1)

Sept, 1994

DOCUMENT TYPE: Evaluation ISSN: 1060-1066 LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

...ABSTRACT: within fields because the program supports OLE and also includes validation criteria, calculated fields and **indexes**. TeLeVell Sales Solutions Inc's \$195 TeleSell Salesperson **Module** 4.02 is a good **program** with the ability to generate sales-related information such as custom quote or proposal letters based on product information. The program also offers users basic features such as name and **address** management and autodialing. WinSales Inc's \$495 WinSales 2.0 includes an Action Plan feature...

19/3, K/27 (Item 2 from file: 275)
DIALOG(R) File 275: Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01208711 SUPPLIER NUMBER: 05031358 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Patterning CD-ROM. (CD-ROM standardization)

Jansson, Peter

PC Tech Journal, v5, n7, p162(11)

July, 1987

ISSN: 0738-0194 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 6324 LINE COUNT: 00481

...ABSTRACT: properties, the logical-format level that specifies the organization of data into structures, and the **application** level that defines and interprets **recorded** data. Philips and Sony have **addressed** the **physical** level, and the High Sierra Group has begun work on the logical-format level, but the **application** level remains unaddressed. Standardization at all three levels of CD-ROM design is discussed.

19/3,K/28 (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01052978 SUPPLIER NUMBER: 00572176
Manage Personal and Professional Activities Better: Get Organized.
List, v2, n9, p125-126
Sept., 1984
DOCUMENT TYPE: product announcement ISSN: 0738-8543 LANGUAGE:
ENGLISH RECORD TYPE: ABSTRACT

ABSTRACT: Get Organized is an integrated **software** package which features seven **modules** that can be displayed in windows and easily accessed. The areas covered represent desktop objects and their functions: notepad, **index** cards, **address** book, calculator, calendar, writing pad and automatic phone dialer. The program requires 256K and dual...

19/3,K/29 (Item 4 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01049091 SUPPLIER NUMBER: 00543584
Custom Color: The Game of Life in Color.
Kitsz, D.
Color Computer Magazine, v2, n2, p121-131
April, 1984
DOCUMENT TYPE: column ISSN: 0736-9492 LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: the fluctuation of a theoretical population of cells, is used to illustrate the principles of **indexed** indirect **addressing** and **modular programming**. **Indexed** indirect is a powerful technique which allows regular and fast **addressing**, much preferred over compare-branch-or-jump routines when speed is essential. Clever utilization of scratchpad memory allows switching of video displays via an offset **address** in SAM. Using the push-stack method of clearing memory can also save time by...

19/3,K/30 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04103309 Supplier Number: 53959713 (USE FORMAT 7 FOR FULLTEXT)
OPA wants to talk to industry about electronic submission of petitions.
Food Chemical News, v41, n1, pNA
Feb 22, 1999
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 520

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...receive electronic versions of petitions from industry. The baseline system includes technology for scanning and **indexing** petitions, a workflow **module**, and a document management **program**. These capabilities are part of OPA's Food Additives Regulatory Management project (FARM), a computer...

...representatives on a one-on-one basis about electronic submissions. The basic issues to be **addressed** are capability, compatibility and security. For the time being, electronic submission will be in the...

19/3,K/31 (Item 2 from file: 636)
DIALOG(R) File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

04024884 Supplier Number: 53283105 (USE FORMAT 7 FOR FULLTEXT)
-PEGASUS SOFTWARE: Premier Rolls orders multi-user installation of Pegasus Connection.
M2 Presswire, pNA
Nov 30, 1998
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 738

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...by Raven Computers, an accredited Pegasus Reseller, and will replace an existing paper-based card **index** system. Operators working from Connection screens can interact with an existing 28 users running Pegasus **Opera modular** accounting **software**, to offer a total sales solution that details customer contact points, history, and previous items...

...database, and with links to Opera, Connection supports immediate access to financial, sales and marketing **information**. Pegasus Opera is one of the UK's most widely installed modular business and accounting...
...also compatible with complementary Pegasus applications such as Operations (Manufacturing), PayPoint (Retail), and Edition (Electronic **Data Interchange - EDI**). Premier Rolls is the UK's largest independent distributor of paper rolls. Incorporated...

...one of the UK's leading providers of business and accounting software for small and **medium** -sized enterprises. Results for the Group for the year ending 31 December 1997 saw turnover...

...0)1780 721433 e-mail: tcole@iba.co.uk *M2 COMMUNICATIONS DISCLAIMS ALL LIABILITY FOR **INFORMATION** PROVIDED WITHIN M2 PRESSWIRE. **DATA** SUPPLIED BY NAMED PARTY/PARTIES.*

19/3,K/32 (Item 3 from file: 636)
DIALOG(R) File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

03834206 Supplier Number: 48327329 (USE FORMAT 7 FOR FULLTEXT)
CROSS/TALK LAUNCHES TANGO COMMUNICATIONS SOLUTION
Tele-Service News, v10, n3, pN/A
March 1, 1998
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 917

... tm) will automatically page the user.
The address book is equipped with a MAPI mail **program** and a TAPI dialer. This allows the user to send and receive faxes and e-mails and an added ability of web **address storage**. The system will also allow a user to **record** a web address or e-mail address into the **program**. The user

may map a client's address by simply clicking a button to be...

19/3,K/33 (Item 4 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02647215 Supplier Number: 45362014 (USE FORMAT 7 FOR FULLTEXT)
NEW PIM: STARFISH SOFTWARE SHIPS SIDEKICK FOR WINDOWS 2.0
EDGE: Work-Group Computing Report, v6, n249, pN/A
Feb 27, 1995
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 1028

... 0 brings together the power of the computer and the ease and convenience of familiar **index** cards and paper-based organizer systems. The **software** 's easy-to-use **modules** keep appointment schedules, manage **addresses** and phone numbers, create to-do lists, track phone calls and more. Beta users have...

19/3,K/34 (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

02235692 Supplier Number: 44264313 (USE FORMAT 7 FOR FULLTEXT)
What about security?
Computer Audit Update, pN/A
Dec, 1993
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 611

... passwords if necessary, and to log the access attempt and its result in the SMF **records**. It can also pass the **physical** terminal **address** to RACF, so this appears in the SMF log, rather than the virtual terminal ID, which is really of no use at all. Even before attempting to reach an **application**, the user's credentials are checked.

The next stage, the processing of the user's...

19/3,K/35 (Item 6 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01247581 Supplier Number: 41305457 (USE FORMAT 7 FOR FULLTEXT)
OPTICAL DISK AND LASERCARD(TM) by William Saffady Recent Developments at FileNet
Optical Information Systems Update, v9, n5, pN/A
May, 1990
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 462

... important component in its growth strategy. The agreement, which was signed under FileNet's ValueNet **program** for independent sales organizations, calls for the two companies to work together in **addressing records storage** and paper handling applications.

In another development, FileNet has announced the installation of a

document...

19/3,K/36 (Item 7 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2004 The Gale Group. All rts. reserv.

01246748 Supplier Number: 41303166 (USE FORMAT 7 FOR FULLTEXT)

Uses

National Report on Computers & Health, v11, n9, pN/A

April 30, 1990

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 544

... vendors -- either a boost or a black eye in Canada.

Sherbrooke bought, in all, two **Data** General MV20000 and two MV15000

com- puters, a MICOM communications system, and 800 peripheral **devices**.

According to Cote's research plan, Sherbrooke needs the following **software**

modules to use SNOMED: patient **index**, ADT, medical records management, patient records, nursing care plans, order entry and results, pharmacy, lab

...

Set	Items	Description
S1	13	AU=(OSHINSKY D? OR OSHINSKY, D?)
S2	2287469	SOFTWARE OR APPLICATION OR PROGRAM?
S3	8816	(PHYSICAL OR STORAGE) (1N) ADDRESS?
S4	121657	BACKUP OR BACK()UP OR RETRIEV?
S5	336478	STORAGE? OR ARCHIVE?
S6	742105	DATA OR INFORMATION OR INFO
S7	201178	INDEX?? OR INDICES OR POINTER? ?
S8	1199158	MEDIA OR MEDIUM OR DEVICE?
S9	285	S4 (3N) MODUL?
S10	9	S9 AND IC=G06F-011/14
S11	619	S4 AND IC=G06F-011/14
S12	341	S11(S)S2
S13	28	S12(20N)S7
S14	7	S10(S) (S2 OR S3 OR S5 OR S6 OR S7 OR S8)
S15	35	S13 OR S14 OR S10

? show file

File 348:EUROPEAN PATENTS 1978-2004/Aug W03

(c) 2004 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20040812, UT=20040805

(c) 2004 WIPO/Univentio

15/3,K/1 (Item 1 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01637518

System and method for managing a plurality of snapshots of a file system
System und Verfahren zum Management von Schnappschüssen eines Dateisystems
Système et procédé pour la gestion des instantanés d'un système de fichiers
PATENT ASSIGNEE:

Network Appliance, Inc., (2617422), 495 East Java Drive, Sunnyvale, California 94089, (US), (Applicant designated States: all)
INVENTOR:

Patterson, Hugo, 1090 Clark Avenue, Mountain View 94040, California, (US)
Skardel, Harold I., 34 Watersedge Drive, Nashua 03063, New Hampshire, (US)

Manley, Stephen L., 54 Eardley Crescent, Flat 4, London SW5 9JZ, (GB)

LEGAL REPRESENTATIVE:

Collins, John David (74592), Marks & Clerk, 57-60 Lincoln's Inn Fields, London WC2A 3LS, (GB)

PATENT (CC, No, Kind, Date): EP 1349089 A2 031001 (Basic)

APPLICATION (CC, No, Date): EP 2003251703 030319;

PRIORITY (CC, No, Date): US 101901 020319

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06F-017/30; G06F-011/14

ABSTRACT WORD COUNT: 94

NOTE:

Figure number on first page: 10

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200340	762
SPEC A	(English)	200340	6862
Total word count - document A			7624
Total word count - document B			0
Total word count - documents A + B			7624

...SPECIFICATION's memory 204. If the information is not in memory, the file system layer 326 **indexes** into the inode file using the inode number to access an appropriate entry and **retrieve** a logical volume block number. The file system layer 326 then passes the logical volume...

15/3,K/2 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01637517

System and method for determining and transmitting changes in snapshots
System und Verfahren zur Bestimmung und Übertragung von Änderungen in Schnappschüssen
Système et procédé pour déterminer et transmettre des changements dans des instantanés
PATENT ASSIGNEE:

Network Appliance, Inc., (2617422), 495 East Java Drive, Sunnyvale, California 94089, (US), (Applicant designated States: all)

INVENTOR:

Federwisch, Michael L., 2742 Thrasher Lane, San Jose, California 95125,

(US)

Manley, Stephen L., 54 Eardley Crescent, Flat 4, London SW5 9JZ, (GB)
Owara, Shane S., 1010 Golf Court, Mountain View, California 94040, (US)
Kleiman, Steven R., 495 East Java Drive, Sunnyvale, California 94089,
(US)

LEGAL REPRESENTATIVE:

Collins, John David et al (74592), Marks & Clerk, 57-60 Lincoln's Inn Fields, London WC2A 3LS, (GB)

PATENT (CC, No, Kind, Date): EP 1349088 A2 031001 (Basic)

APPLICATION (CC, No, Date): EP 2003251702 030319;

PRIORITY (CC, No, Date): US 100950 020319; US 100967 020319

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LI; LU; MC; NL; PT; RO; SE; SI; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK

INTERNATIONAL PATENT CLASS: G06F-017/30; G06F-011/14

ABSTRACT WORD COUNT: 234

NOTE:

Figure number on first page: 3

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200340	1172
SPEC A	(English)	200340	17147
Total word count - document A			18319
Total word count - document B			0
Total word count - documents A + B			18319

...SPECIFICATION s memory 325. If the information is not in memory, the file system layer 450 **indexes** into the inode file using the inode number to access an appropriate entry and **retrieve** a volume block number. The file system layer 450 then passes the volume block number...

15/3,K/3 (Item 3 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01371845

Utilization of unused disk space on networked computers

Verwendung von ungenutzter Speicherkapazitat bei vernetzten Computern

Utilisation d'espace disque inutilise sur les ordinateurs geres en reseau

PATENT ASSIGNEE:

Hewlett-Packard Company, (206037), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

Watkins, Mark Robert, 9 Rockleaze Avenue, Sneyd Park, Bristol BS9 1NG, (GB)

Hogg, Graeme, 19 Parrys Grove, Stoke Bishop, Bristol BS9 1TT, (GB)

Slater, Alastair Michael, 1 south Lodge, Charlton Park, Malmesbury, Wiltshire SN16 9DG, (GB)

Duncan, Ian Stuart, 3233 Honeysuckle Court, Fort Collins, Colorado, (US)

LEGAL REPRESENTATIVE:

Lawman, Matthew John Mitchell et al (84551), Hewlett-Packard Limited, IP Section, Building 3, Filton Road, Stoke Gifford, Bristol BS34 8QZ, (GB)

PATENT (CC, No, Kind, Date): EP 1168176 A2 020102 (Basic)

APPLICATION (CC, No, Date): EP 2001304959 010606;

PRIORITY (CC, No, Date): EP 2000304891 000609

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

ABSTRACT WORD COUNT: 132

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200201	1528
SPEC A	(English)	200201	7520
Total word count - document A			9048
Total word count - document B			0
Total word count - documents A + B			9048

...SPECIFICATION are common to a plurality of computer entities need only be stored in the DFS **backup** system once, with **pointers** to individual computer entities.

The second method recognizes that distributed file systems can be used

...

15/3,K/4 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01364122

Utilization of unused disk space on networked computers

Verwendung von ungenutzter Speicherkapazitat bei vernetzten Computern

Utilisation d'espace disque inutilise sur les ordinateurs geres en reseau

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover Street, Palo Alto, CA 94304, (US), (Applicant designated States: all)

INVENTOR:

Watkins, Mark Robert, 12 Halsbury Road, Westbury Park, Bristol BS6 7SR, (GB)

Hogg, Graeme, 19 Parrys Close, Stoke Bishop, Bristol BS9 1TT, (GB)

Slater, Alastair Michael, 1 South Lodge, Charlton Park, Malmesbury, Wilts SN16 9DG, (GB)

Duncan, Ian Stuart, 145 Couzens Close, Chipping Sodbury, Bristol BS37 6BS, (GB)

LEGAL REPRESENTATIVE:

Lawman, Matthew John Mitchell et al (84552), Hewlett-Packard Limited, IP Section, Building 3, Filton Road, Stoke Gifford, Bristol BS34 8QZ, (GB)

PATENT (CC, No, Kind, Date): EP 1162537 A1 011212 (Basic)

APPLICATION (CC, No, Date): EP 2000304891 000609;

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

ABSTRACT WORD COUNT: 132

NOTE:

Figure number on first page: 5

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200150	1338
SPEC A	(English)	200150	7174
Total word count - document A			8512
Total word count - document B			0
Total word count - documents A + B			8512

...SPECIFICATION are common to a plurality of computer entities need only be stored in the DFS **backup** system once, with **pointers** to individual computer entities.

The second method recognizes that distributed file systems can be used

15/3,K/5 (Item 5 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01258153

MODULAR BACKUP AND RETRIEVAL SYSTEM
MODULARES DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM
SYSTEME MODULAIRE DE RECHERCHE ET DE SECOURS

PATENT ASSIGNEE:

Commvault Systems, Inc., (2305342), 2 Crescent Place, Oceanport, NJ 07757-0900, (US), (Applicant designated States: all)

INVENTOR:

CRESCENTI, John, 1 Ivy Road, Freehold, NJ 07728, (US)

KAVURI, Srinivas, 40 Maple Court, Highland Park, NJ 08904, (US)

OSHINSKY, David, A., 22 Francis Road, East Brunswick, NJ 08816, (US)

PRAHLAD, Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, (US)

PATENT (CC, No, Kind, Date):

WO 2001006368 010125

APPLICATION (CC, No, Date): EP 2000947406 000717; WO 2000US19329 000717

PRIORITY (CC, No, Date): US 354063 990715

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

LANGUAGE (Publication,Procedural,Application): English; English; English

MODULAR BACKUP AND RETRIEVAL SYSTEM

INTERNATIONAL PATENT CLASS: G06F-011/14

15/3,K/6 (Item 6 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

01258084

METHOD AND SYSTEM FOR BACKING UP AND RESTORING FILES STORED IN A SINGLE INSTANCE STORE

VERFAHREN UND SYSTEM ZUR DATENSICHERUNG/WIEDERHERSTELLUNG VON AN EINER EINZIGEN STELLE GESPEICHERTEN DATEIEN

PROCEDE ET SYSTEME DE SAUVEGARDE ET DE RESTAURATION DE FICHIERS MEMORISES DANS UNE MEMOIRE A INSTANCE UNIQUE

PATENT ASSIGNEE:

MICROSOFT CORPORATION, (749866), One Microsoft Way, Redmond, WA 98052, (US), (Proprietor designated states: all)

INVENTOR:

BOLOSKY, William, J., 24622 S.E. Mirrormont Drive, Issaquah, WA 98027, (US)

CUTSHALL, Scott, M., 816 289th Avenue N.E., Carnation, WA 98014, (US)

LEGAL REPRESENTATIVE:

Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721), Maximilianstrasse 58, 80538 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1212681 A1 020612 (Basic)

EP 1212681 B1 030402

WO 2001006366 010125

APPLICATION (CC, No, Date): EP 2000947265 000712; WO 2000US18990 000712
PRIORITY (CC, No, Date): US 356383 990716
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G06F-011/14

NOTE:

No A-document published by EPO
LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200314	1014
CLAIMS B	(German)	200314	1000
CLAIMS B	(French)	200314	1184
SPEC B	(English)	200314	12301
Total word count - document A			0
Total word count - document B			15499
Total word count - documents A + B			15499

...SPECIFICATION requested by SisCSFilesToBackUpForLink, described below.
If countOfCommonStoreFilesToBackUp is zero, then commonStoreFilesToBackUp
may be a NULL **pointer** and should be ignored by the **backup
application** 118.

The return value is TRUE if the call succeeded, and FALSE otherwise. If
FALSE...

...underscore)REPARSE(underscore)TAG(underscore)SIS. For each SIS link to
be backed up, the **backup application** 118 should call (only once per
link file) SisCSFilesToBackUpForLink.

The SisCSFilesToBackUpForLink function takes as input a **pointer** to
the contents of the SIS reparse point for a link file that the **backup
application** 118 is planning to store on the backup storage medium 122.
This function also takes the length of the reparse data as a parameter,
as well as an optional context **pointer** that is provided by the **backup
application** and uninterpreted by the SIS DLL 116.

In accordance with one aspect of the present...of FIG. 13B first zeros
the count of files to return and sets the array **pointer** to NULL,
whereby the **backup application** 118 will not receive a common store
filename unless needed. To this end, step 1322...

...returned status, and adds its filename string to the array for returning
to the **backup application** . At step 1326 the
countOfCommonStoreFilesToBackUp and commonStoreFilesToBackUp are
appropriately adjusted, after which step 1328 returns the array (i.e.,
its **pointer**) and count to the **backup application** 118. Note that
multiple common store files corresponding to a link file may be handled
...store file is already present on the volume, and if so, exits (returns
a NULL **pointer** and a zero count) without returning the filename thereof
to the restore **application program** 120. Note that if present on the
volume, the common store file identifier will have...

15/3,K/7 (Item 7 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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01255809
MODULAR BACKUP AND RETRIEVAL SYSTEM WITH AN INTEGRATED STORAGE AREA
FILE SYSTEM
MODULARES DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM MIT EINEM

INTEGRIERTEN SPEICHERBEREICHSDATEISYSTEM
SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION AVEC SYSTEME DE FICHIER
DE ZONE DE MEMOIRE INTEGRE

PATENT ASSIGNEE:

Commvault Systems, Inc., (2305341), Suite B, 2 Crescent Place, Oceanport, NJ 07757, (US), (Applicant designated States: all)

INVENTOR:

CRESCENTI, John, 1 Ivy Road, Freehold, NJ, (US)

KAVURI, Srinivas, 40 Maple Court, Highland Park, NJ 08904, (US)

OSHINSKY, David, Alan, 22 Francis Road, East Brunswick, NJ 08816, (US)

PRAHLAD, Anand, 3504 Willow Drive, Ocean, NJ 07712, (US)

PATENT (CC, No, Kind, Date):

WO 2001004755 010118

APPLICATION (CC, No, Date): EP 2000948700 000714; WO 2000US19363 000714

PRIORITY (CC, No, Date): US 143743 P 990714; US 143744 P 990714; US 609977 000705

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

LANGUAGE (Publication, Procedural, Application): English; English; English

MODULAR BACKUP AND RETRIEVAL SYSTEM WITH AN INTEGRATED STORAGE AREA
FILE SYSTEM
INTERNATIONAL PATENT CLASS: G06F-011/14

15/3,K/8 (Item 8 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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01255672
MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A
STORAGE AREA NETWORK
MODULARES DATENSICHERUNG- UND WIEDERAUFFINDUNGSSYSTEM ZUM BETRIEBEN MIT
EINEM SPEICHERBEREICHS NETZWERK
SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION UTILISE CONJOINTEMENT
AVEC UN RESEAU A ZONE DE MEMOIRE

PATENT ASSIGNEE:

Commvault Systems, Inc., (2305342), 2 Crescent Place, Oceanport, NJ 07757-0900, (US), (Applicant designated States: all)

INVENTOR:

CRESCENTI, John, 1 Ivy Road, Freehold, NJ 07728, (US)

KAVURI, Srinivas, 40 Maple Court, Highland Park, NJ 08904, (US)

OSHINSKY, David, A., 22 Francis Road, East Brunswick, NJ 08816, (US)

PRAHLAD, Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, (US)

PATENT (CC, No, Kind, Date):

WO 2001004756 010118

APPLICATION (CC, No, Date): EP 2000947418 000714; WO 2000US19364 000714

PRIORITY (CC, No, Date): US 143743 P 990714; US 143744 P 990714; US 610738 000706

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-011/14

LANGUAGE (Publication, Procedural, Application): English; English; English

MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A
STORAGE AREA NETWORK
INTERNATIONAL PATENT CLASS: G06F-011/14

15/3, K/9 (Item 9 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

01001455

Method of transferring data between hosts through a storage subsystem
Verfahren zur Datenübertragung zwischen Rechnern über ein Speichersubsystem
Methode de transfer de donnees entre des ordinateurs hotes par un
sous-système de mémoire

PATENT ASSIGNEE:

Hitachi, Ltd., (204145), 6 Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo
101-8010, (JP), (Proprietor designated states: all)

INVENTOR:

Kitamura, Manabu, 1069-5, Kashiwagaya, Ebina-shi, (JP)
Yamamoto, Akira, 5-61, Wakamatsu-6-chome, Sagamihara-shi, (JP)
Honma, Shigeo, 201-18, Yahagi, Odawara-shi, (JP)
Urabe, Kiichiro, 1150-2-2-205, Takamori, Isehara-shi, (JP)
Uratani, Ikuo, 65, Chimura, Hadano-shi, (JP)

LEGAL REPRESENTATIVE:

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 903668 A1 990324 (Basic)
EP 903668 B1 030319

APPLICATION (CC, No, Date): EP 98116803 980904;

PRIORITY (CC, No, Date): JP 97250252 970916

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-011/14

ABSTRACT WORD COUNT: 72

NOTE:

Figure number on first page: 1

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199911	377
CLAIMS B	(English)	200312	284
CLAIMS B	(German)	200312	239
CLAIMS B	(French)	200312	308
SPEC A	(English)	199911	9781
SPEC B	(English)	200312	9698
Total word count - document A		10160	
Total word count - document B		10529	
Total word count - documents A + B		20689	

...SPECIFICATION data relating to the location is stored in the internal variable of the format conversion **program** 25 (Step 110). In addition, the format conversion **program** 25 has an internal **pointer** so that it stores both of a relative track address and the record number which...the portion C of the record is skipped over and only the portion D is **retrieved** to be delivered to the file access **program** 24 (Step 204), and then the internal **pointer** is moved to the next record (Step 207). At the same time, the buffer pointer...

...SPECIFICATION data relating to the location is stored in the internal variable of the format conversion **program** 25 (Step 110). In addition, the format conversion **program** 25 has an internal **pointer** so that it stores both of a relative track address and the record number which...the portion C of the record is skipped over and only the portion D is

retrieved to be delivered to the file access program 24 (Step 204), and then the internal **pointer** is moved to the next record (Step 207). At the same time, the buffer pointer...

15/3,K/10 (Item 10 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00836637
System for backing up files from disk volumes on multiple nodes of a computer network
Verfahren zur Dateisicherung von Festplattenvolumen in einem Vielfachknotenrechnernetzwerk
Systeme de sauvegarde de fichiers sur des volumes de disques dans des noeuds multiples d'un reseau d'ordinateur
PATENT ASSIGNEE:
Stac Electronics, (2216430), 12636 High Bluff Drive, Suite 400, San Diego, California 92130-2093, (US), (applicant designated states: DE;GB)
INVENTOR:
Whiting, Douglas L., 3312 Febo Court, Carlsbad, California 92009, (US)
Dilatush, Tom, 1052 Cuyamac Avenue, Chula Vista, California 91911, (US)
LEGAL REPRESENTATIVE:
Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square, Birkenhead Merseyside L41 6BR, (GB)
PATENT (CC, No, Kind, Date): EP 774715 A1 970521 (Basic)
APPLICATION (CC, No, Date): EP 96307628 961021;
PRIORITY (CC, No, Date): US 546727 951023
DESIGNATED STATES: DE; GB
INTERNATIONAL PATENT CLASS: G06F-011/14;
ABSTRACT WORD COUNT: 246

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	1498
SPEC A	(English)	EPAB97	21689
Total word count - document A			23187
Total word count - document B			0
Total word count - documents A + B			23187

...SPECIFICATION Agent 108, as part of the migration process of backup data files from (back slash) **BACKUP** (back slash)USERS 121 to (back slash) **BACKUP** (back slash)SYSTEM 122, builds a special **Index** Range Lookup file (e.g., 151 of FIGURE 3). This file, which is redundant in the sense than it can always be re-built from the contents of the **backup** data and directory files, includes a table which maps **index** ranges into **backup** data file names and which is arranged for a fast binary search. With the appropriate **backup** data file identified, this file is opened, and the **pointer** 162 to the FileInfoPtrs sections is read from the Header 160. The index range record...of the consolidation operation may also have to be deferred until no users have a **backup** set mounted that contains a reference to the file(s) in questions, Observe that the use of **indices** (instead of direct pointers) both for file and directory references greatly simplifies such an operation...

15/3,K/11 (Item 11 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00826566

System for backing up computer disk volumes

Computerplattenvolumensicherungssystem

Systeme de sauvegarde de volumes de disques d'ordinateur

PATENT ASSIGNEE:

Stac, Inc., (2207830), 12636 High Bluff Drive, Suite 400, San Diego, California 92130-2093, (US), (applicant designated states: DE;GB)

INVENTOR:

Matze, John E. G., 14417 Harvest Court, Poway, California 92064, (US)

Whiting, Douglas L., 3312 Febo Court, Carlsbad, California 92009, (US)

LEGAL REPRESENTATIVE:

Wombwell, Francis et al (46021), Potts, Kerr & Co. 15, Hamilton Square, Birkenhead Merseyside L41 6BR, (GB)

PATENT (CC, No, Kind, Date): EP 767431 A1 970409 (Basic)

APPLICATION (CC, No, Date): EP 96307287 961004;

PRIORITY (CC, No, Date): US 539315 951004

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: G06F-011/14;

ABSTRACT WORD COUNT: 122

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB97	3049
SPEC A	(English)	EPAB97	10360
Total word count - document A			13409
Total word count - document B			0
Total word count - documents A + B			13409

...SPECIFICATION the two blocks match, so the new block is not stored on tape, but a **pointer** to the old block is saved in the block map table for this **backup**, which cannot be pre-computed and is therefore appended to the tape image. If the...

15/3,K/12 (Item 12 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2004 European Patent Office. All rts. reserv.

00802355

Re-entrant garbage collection process for a flash memory resident file system

Re-entrant-Garbagesammlungsverfahren fur ein in einem Flashspeicher residentes Dateisystem

Procede de regroupement des positions inutilisees pour un systeme de fichier residant dans une memoire flash

PATENT ASSIGNEE:

Lucent Technologies Inc., (2143720), 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, (US), (applicant designated states: DE;GB)

INVENTOR:

Balk, Michael W., 1510 Glenwood Drive, Piscataway, Middlesex County, New Jersey 08854, (US)

LEGAL REPRESENTATIVE:

Johnston, Kenneth Graham (32381), Lucent Technologies (UK) Ltd, 5 Mornington Road, Woodford Green Essex, IG8 OTU, (GB)

PATENT (CC, No, Kind, Date): EP 745939 A2 961204 (Basic)

APPLICATION (CC, No, Date): EP 96303935 960531;

PRIORITY (CC, No, Date): US 455373 950531

DESIGNATED STATES: DE; GB
INTERNATIONAL PATENT CLASS: G06F-012/02; G06F-011/14;
ABSTRACT WORD COUNT: 342

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	789
SPEC A	(English)	EPAB96	4918
Total word count - document A			5707
Total word count - document B			0
Total word count - documents A + B			5707

...SPECIFICATION 4 of the present invention may just as well be
implemented through the use of **pointers**.

To write an **application** file to the file system 4, a File object is
created upon an **application** call to the file system virtual device.
The File object retrieves an in-memory copy...

15/3, K/13 (Item 13 from file: 348)
DIALOG(R) File 348: EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00802264

File system for a data storage device having a power fail recovery
mechanism for write/replace operations
Dateisystem fur eine Datenspeichereinrichtung mit einem
Spannungsfehlerbeseitigungsmechanismus fur Schreib-/Ersatzoperationen
Système de fichier pour un dispositif de stockage de données ayant un
mecanisme de redressement en cas de perte d'alimentation pour des
operations d'ecriture/re

PATENT ASSIGNEE:

AT&T Corp., (589370), 32 Avenue of the Americas, New York, NY 10013-2412,
(US), (applicant designated states: DE;GB)

INVENTOR:

Balk, Michael W., 1510 Glenwood Drive, Piscataway, New Jersey 08854, (US)

LEGAL REPRESENTATIVE:

Johnston, Kenneth Graham (32381), Lucent Technologies (UK) Ltd, 5
Mornington Road, Woodford Green Essex, IG8 OTU, (GB)

PATENT (CC, No, Kind, Date): EP 745934 A2 961204 (Basic)
EP 745934 A3 990224

APPLICATION (CC, No, Date): EP 96303617 960521;

PRIORITY (CC, No, Date): US 455926 950531

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: G06F-011/14; G06F-012/02;

ABSTRACT WORD COUNT: 343

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	664
SPEC A	(English)	EPAB96	4917
Total word count - document A			5581
Total word count - document B			0
Total word count - documents A + B			5581

...SPECIFICATION 4 of the present invention may just as well be
implemented through the use of **pointers**.

To write an **application** file to the file system 4, a File object is

created upon an **application** call to the file system virtual device.
The File object retrieves an in-memory copy...

15/3,K/14 (Item 14 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2004 European Patent Office. All rts. reserv.

00673065

Computer memory backup arrangement
Rechnerspeichersicherstellung
Agencement de sauvegarde de memoire d'ordinateur

PATENT ASSIGNEE:

COMMVAULT SYSTEMS, INC., (2305340), One Industrial Way, Eatontown, New Jersey 07724, (US), (applicant designated states: DE;ES;FR;GB;IT)

INVENTOR:

Kanfi, Arnon, 7 Elaine Court, Randolph, New Jersey 07869, (US)

LEGAL REPRESENTATIVE:

Loven, Keith James et al (47885), Loven & Co Quantum House 30 Tentercroft Street, Lincoln LN5 7DB, (GB)

PATENT (CC, No, Kind, Date): EP 645709 A2 950329 (Basic)
EP 645709 A3 960228
EP 645709 B1 981209

APPLICATION (CC, No, Date): EP 94306746 940914;

PRIORITY (CC, No, Date): US 125943 930923

DESIGNATED STATES: DE; ES; FR; GB; IT

INTERNATIONAL PATENT CLASS: G06F-011/14;

ABSTRACT WORD COUNT: 91

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9850	535
CLAIMS B	(German)	9850	526
CLAIMS B	(French)	9850	620
SPEC B	(English)	9850	2801
Total word count - document A			0
Total word count - document B			4482
Total word count - documents A + B			4482

...SPECIFICATION addresses are in the range characterized by the current value of next(underscore)block(underscore) **pointer** to the last block of memory 11-1. The **program** then proceeds to block 3008 where it stores the current contents of register 210 and...

15/3,K/15 (Item 15 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00645618

APPARATUS AND METHOD FOR BACKING UP DATA FROM NETWORKED COMPUTER STORAGE DEVICES

VORRICHTUNG UND VERFAHREN ZUR DATENSICHERUNG VON SPEICHEREINHEITEN IN EINEM RECHNERNETZWERK

APPAREIL ET PROCEDE DE SAUVEGARDE DE DONNEES A PARTIR DE DISPOSITIFS DE MEMORISATION INTERNE INTERCONNECTES

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 680634 A1 951108 (Basic)
EP 680634 B1 970514
WO 9417474 940804

APPLICATION (CC, No, Date): EP 94907283 940119; WO 94US765 940119

PRIORITY (CC, No, Date): US 7159 930121

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; NL;
PT; SE

INTERNATIONAL PATENT CLASS: G06F-011/14;

NOTE:

No A-document published by EPO

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	2020
CLAIMS B	(German)	EPAB97	1860
CLAIMS B	(French)	EPAB97	2249
SPEC B	(English)	EPAB97	8653
Total word count - document A			0
Total word count - document B			14782
Total word count - documents A + B			14782

...SPECIFICATION the full index at the conclusion of the second state merge
will match those in **index** 36b.

FIG. 4D shows the third state of a **backup** cycle 71. As previously
stated, the third state of a **backup** cycle begins when a specified,
predetermined time or event occurs or a transfer operation from...
includes commands to exchange information about which backup operation is
being performed, which version of **software** is executing, which zones
are on a network, which zone should be backed up, and for transferring a
full **index** 36, an **index** entry 50 or a **backup** data file 38.

The foregoing description has used a specific embodiment of this
invention. It...

15/3,K/16 (Item 16 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00630879

Data processing system with power-fail protected memory module
Datenverarbeitungssystem mit netzausfallgeschütztem Speichermodul
Système de traitement de données comprenant un module de mémoire protégé
contre la perte de puissance

PATENT ASSIGNEE:

Hewlett-Packard Company, (206030), 3000 Hanover Street, Palo Alto,
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INVENTOR:

Harwell, John Cecil, 3756 N. Saygrass Way, Boise, Idaho, (US)
Rusnack, Michael R., 10769 Treeline Court, Boise, Idaho 83704, (US)

LEGAL REPRESENTATIVE:

Liesegang, Roland, Dr.-Ing. et al (7741), FORRESTER & BOEHMERT
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PATENT (CC, No, Kind, Date): EP 614143 A2 940907 (Basic)

EP 614143 A3 950111
EP 614143 B1 971203
APPLICATION (CC, No, Date): EP 93117629 931029;
PRIORITY (CC, No, Date): US 26148 930302
DESIGNATED STATES: DE; FR; GB; IE; IT
INTERNATIONAL PATENT CLASS: G06F-011/14 ; G06F-001/30
ABSTRACT WORD COUNT: 240

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9711W4	577
CLAIMS B	(German)	9711W4	474
CLAIMS B	(French)	9711W4	718
SPEC B	(English)	9711W4	1621
Total word count - document A			0
Total word count - document B			3390
Total word count - documents A + B			3390

INTERNATIONAL PATENT CLASS: G06F-011/14 ...

... CLAIMS um alle Daten in einem angeschlossenen RAM-Modul (26, 28) unterzubringen;
jeder Verbund aus RAM- Modul (26, 28) und Backup -Plattenlaufwerk (34, 36) eine dedizierte Backup-Batterie (38, 40) mit ausreichend Leistungskapazitat hat, um eine...

...und einem Backup-Plattenlaufwerk (34, 36) ubertragenen Daten zu gewahrleisten; und
jeder Verbund aus RAM- Modul (26, 28), Backup -Plattenlaufwerk (34, 36), dedizierter Batterie (38, 40) und Fehlerkorrekturcode-Erzeugungsvorrichtung als eine integrale Einheit auf...

15/3,K/17 (Item 17 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS
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00565768

Method and system for concurrent access during backup copying of data.
Verfahren und System zum gleichzeitigen Zugriff wahrend der Datensicherung.
Procede et systeme d'accès simultane lors de la sauvegarde de données.
PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

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Mikkelsen, Claus William, 16795 Oak View Circle, Morgan Hill, California 95037, (US)
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PATENT (CC, No, Kind, Date): EP 566968 A2 931027 (Basic)
EP 566968 A3 950301
APPLICATION (CC, No, Date): EP 93105993 930413;
PRIORITY (CC, No, Date): US 871247 920420
DESIGNATED STATES: DE; FR; GB
INTERNATIONAL PATENT CLASS: G06F-011/14;
ABSTRACT WORD COUNT: 154

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1157
SPEC A	(English)	EPABF1	4447
Total word count - document A			5604
Total word count - document B			0
Total word count - documents A + B			5604

...SPECIFICATION or which may be dispersed. Therefore, those skilled in the art will appreciate that if **backup** copies are created at the dataset level it will be necessary to perform multiple sorts to form inverted **indices** into real storage. For purposes of explanation of this invention, **backup** processing will be described as managed both at the resource manager level within a data...

15/3,K/18 (Item 18 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS
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00565767

Method and system for time zero backup session security.

Verfahren und System zur "Time-Zero"-Sicherungssitzungssicherheit.

Procede et systeme de session de sauvegarde de securite de type "temps zero".

PATENT ASSIGNEE:

International Business Machines Corporation, (200120), Old Orchard Road, Armonk, N.Y. 10504, (US), (applicant designated states: DE;FR;GB)

INVENTOR:

Cohn, Oded, Gut Levin 20/4, Haifa, 32922, (IL)

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Nagin, Kenneth Michael, Mendela 6A, Haifa, Israel32447, (IL)

Novick, Yoram, 14 Got Levin Street, Ramot Sapir, Haifa 32922, (IL)

Winokur, Alexander, 23 Dryfuss Street, Haifa 35434, (IL)

LEGAL REPRESENTATIVE:

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PATENT (CC, No, Kind, Date): EP 566967 A2 931027 (Basic)
EP 566967 A3 950301

APPLICATION (CC, No, Date): EP 93105992 930413;

PRIORITY (CC, No, Date): US 871358 920420

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-011/14;

ABSTRACT WORD COUNT: 119

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	1268
SPEC A	(English)	EPABF1	5544
Total word count - document A			6812

Total word count - document B 0
Total word count - documents A + B 6812

...SPECIFICATION or which may be dispersed. Therefore, those skilled in the art will appreciate that if **backup** copies are created at the dataset level it will be necessary to perform multiple sorts to form inverted **indices** into real storage. For purposes of explanation of this invention, **backup** processing will be described as managed both at the resource manager level within a data...

15/3, K/19 (Item 19 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00343005

Checkpoint retry system.

Prüfpunkt-Wiederholungssystem.

Système de relance sur points de reprise.

PATENT ASSIGNEE:

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LEGAL REPRESENTATIVE:

Schafer, Wolfgang, Dipl.-Ing. et al (62021), IBM Deutschland
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PATENT (CC, No, Kind, Date): EP 348652 A2 900103 (Basic)

EP 348652 A3 910508

EP 348652 B1 950719

APPLICATION (CC, No, Date): EP 89108811 890517;

PRIORITY (CC, No, Date): US 213535 880630

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-011/14;

ABSTRACT WORD COUNT: 136

LANGUAGE (Publication, Procedural, Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	326
CLAIMS B	(English)	EPAB95	530
CLAIMS B	(German)	EPAB95	470
CLAIMS B	(French)	EPAB95	677
SPEC A	(English)	EPABF1	10062
SPEC B	(English)	EPAB95	10183
Total word count - document A			10389
Total word count - document B			11860
Total word count - documents A + B			22249

...SPECIFICATION shown in Fig. 5. When a new checkpoint is established, the IPPU, which contains the **program** status word stack, sends out a **pointer** to the different logical units which contain the floating point register in the floating point...

...a new checkpoint has been started. The FPU, EPU and EXT units will assign this **pointer** to one of their **backup** arrays to synchronize a checkpoint. As execution of the instruction begins, each unit saves the

...
...SPECIFICATION shown in Fig. 5. When a new checkpoint is established, the IPPU, which contains the **program** status word stack, sends out a **pointer** to the different logical units which contain the floating point register in the floating point...

...a new checkpoint has been started. The FPU, EPU and EXT units will assign this **pointer** to one of their **backup** arrays to synchronize a checkpoint. As execution of the instruction begins, each unit saves the

...

15/3,K/20 (Item 20 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
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00266141

File backup facility for a community of personal computers.
Dateisicherungseinrichtung fur eine Gemeinschaft von Personalcomputern.
Amenagement de sauvegarde de fichier pour une communaute d'ordinateurs personnels.

PATENT ASSIGNEE:

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PATENT (CC, No, Kind, Date): EP 259912 A1 880316 (Basic)
EP 259912 B1 911016

APPLICATION (CC, No, Date): EP 87201556 870818;

PRIORITY (CC, No, Date): GB 8622010 860912

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-011/14;

ABSTRACT WORD COUNT: 122

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	941
CLAIMS B	(German)	EPBBF1	933
CLAIMS B	(French)	EPBBF1	1085
SPEC B	(English)	EPBBF1	12929
Total word count - document A			0
Total word count - document B			15888
Total word count - documents A + B			15888

...SPECIFICATION the central station (block 96) and wait for the specified period of time (block 97) **before** reinitiating the **backup** request.

Once the Server **program** has indicated to a requesting PC that the central station's **backup** facilities are available, the **PC Requestor program** proceeds to identify the files to be backed up.

It will be appreciated from the...

...through the OS directory and checking whether each file found is encompassed by the current **backup** selection list. Algorithms for walking through the OS directory to find each file in turn will be apparent to persons skilled in the art and...

...not to be backed up, walking through of the OS directory continues from the new **pointer** position.

If, however, the file is found to be one selected for **backup**, a check is next made to see if that particular file version has already been... checking each entry against the restore selection list. The step-by-step walkthrough of the **backup** directory requires the maintenance of a search **pointer** which is initialised to the start of the directory and updated each time a file...

15/3, K/21 (Item 1 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00993634 **Image available**

SELECTIVE DATA BACKUP

SAUVEGARDE DE DONNEES

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200323617 A2-A3 20030320 (WO 0323617)

Application: WO 2002US28406 20020906 (PCT/WO US02028406)

Priority Application: US 2001317684 20010906; US 2002235304 20020905

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 7086

Fulltext Availability:

Detailed Description

Detailed Description

... CFE/RFE) backup techniques. CFE-breaking files that the computer 12 is configured to efficiently **backup** contain aggregations of files or other

data groups, such as email attachments, with **indexes** or other indicia of data subgroups within the larger file, resembling a database. With such...

15/3,K/22 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT
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00976222 **Image available**

METHOD AND APPARATUS FOR PEER-TO-PEER SERVICES
PROCEDE ET APPAREIL POUR DES SERVICES D'EGAL A EGAL

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200305640 A2-A3 20030116 (WO 0305640)

Application: WO 2002US21020 20020703 (PCT/WO US02021020)

Priority Application: US 2001303706 20010706; US 200295361 20020308

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ

EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 12092

Fulltext Availability:

Detailed Description

Detailed Description

... If a website provider wanted to make use of this service they would run an **application** which would catalogue and **index** all files available from their site, uniquely identify them, and record a reference to them...

15/3,K/23 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT
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00887113 **Image available**

A COMPUTER WITH SWITCHABLE COMPONENTS

ORDINATEUR A COMPOSANTS COMMUTABLES

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200221274 A1 20020314 (WO 0221274)
Application: WO 2001US16629 20010521 (PCT/WO US0116629)
Priority Application: US 2000205531 20000519; US 2000220282 20000724; US
2001291767 20010517

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL
TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 33588

Main International Patent Class: G06F-011/14

Fulltext Availability:

Claims

Claim

... 0 - 15, or other switches that can perform switching to multiple
identities.
Also, example of **modular** approach to **backup** and repair process. The
same
wiring and circuitry methods can be duplicated over and over for more
users/more **devices** .
W56: Repair and backup of Multiple **Data Storage Devices** . Shows
repair,
backup, and individual switching of power. Please note that **device**
identity is not switched in this version. A version can also be
constructed that has some of the **devices** switched, and some not
switched. Also, W15 is an example of a **modular**
approach to the **backup** and repair system. The same wiring and circuitry
methods can be duplicated over and over for more users/more **devices** .
W57: Repair of Multiple **Data Storage Devices** . Repair on separate
busses. W58 Repair of Multiple **Data Storage Devices** utilizing
hot-swap drives.
W59: Switch used for switching computers, computing **devices** , computing
hardware. Thus, if one hardware, **device** fails, just switch to second
device . Please assume that switch W591 I can utilize the brake, PLC,
circuit board controls shown... .

...of the other figures. Optionally do not switch ground. Optionally,

isolate'ground from other computing **device** (s). W60: Single user, with repair, with switch to secondary computing **device** and common mirror. Continued on W61. It should be mentioned that on diagrams 60 and...
...wires can isolated, and/or

62 switched as needed to isolate each of the computing **devices**. Surge and voltage protection and filtering can also be added between the **data storage devices** and computing **devices**. W6060 can be a switch or a relay. In diagrams W60 and W61, instead of...

...CPU "A" is on it won't effect CPU B if B is isolated. The **device** can also be constructed without isolating the power, and without any switch or relay although...

...construction method, is not recommended. W61: Single user, with repair, with switch to secondary computing **device** and common **data storage device** mirror. Continued on W60. W62: One computer and/or computing **device** containing two computers and/or computing **devices** with mirror and ability two switch between **devices**. The computing **devices** can be set up with multi-user, repair, etc., but with common mirrors and ability to switch between computing **devices**. This system can also be built as separate units instead of combined in one box. W64 represents examples of wiring diagrams for interrupting connections to computing **devices**. The diagram shows four examples of this: A, B, C, and D. This is a...

...to switching wireless connections. The connection is briefly interrupted for the purpose of "resetting" the **device**. W64NL represents examples of wiring diagrams for turning network connections 99 off"and "on". The...

...needed. Can also switch wireless connections.
W64.6 Example of interrupting connections to an external **device** to reset connection and/ or for the purpose of resetting a **device**, connection, or to "break" out of a "freeze."

W65 Example of computing **device** containing dual computing **devices** that can be switched, plus a sheired **data storage device** (that can be switched back and forth between, the dual computing setup) for the purpose of isolating **data** (so that malicious code cannot affect other **data**). W66: Repair of a Multi-User System.

Assumptions about circuit board:

If there is no...

...zap -PRAM" keyboard sequence to on startup. W67 Similar to W65 but also shows how **data** can be further isolated: a network connection can be switched to ensure isolation of **data**. For example, the network connection can be switched "off" whenever **data storage device** (6215) is "on" and the network connection can be switched "on" when **data storage device** (6214) is "on" (and vice-versa). This "Virus-Proof/Hacker-Proof'computer is a computer that uses one (or more) **data storage devices** for normal use, and a different **data storage device** (s) for doing E-mail. The Switching System switches between the **data storage devices**, alternating between "active" and "inactive" **data storage devices**. To move **data** from the E-mail **data storage device** to the hard drive, or visa versa, a temporary "quarantine" **data storage device** is used. Optionally, it will not release **data** until an on-line

connection has been made and the drive checked with a current virus checker. Data can optionally be held for a time period, and then released upon a virus check.... giving **data** virus companies time to detect new viruses and update their **software**. **Software** can be used to replace the Switching System switch or in conjunction with the Switching

...

...for #24
35) Power Control -Indicator activity light for #25
26) time delay circuit
27) **Data** and power to LCD screen
and/or **data** for computer monitor
and/or to computer.
28) Power to board
50) time delay jumper...

...314. ID Jumpers 4 and 6 are optional spares. For multiple users/operating systems, and/or **data storage devices**, duplicate the circuitry in the drawing (except for the controller and switch/switch lock.. in...

...60 One type of Circuit Board for Repair and Backup. Optional Automatic Repair Example Script/ **program** : On computer startup the script/ **program** hides all ...e.g. while the command key is down, sequential input of the letters: zappy
A **program** or script runs the following sequence of events (all in the background
hidden from the user):

A backup **program** is executed that makes a complete backup of the **data** on the drive at ID 1. The destination of this backup should be able to...
...the drive at ID 0, or could go on a drive at ID 2. A **program** or script executes that checks to see that the backup has been made successfully.

After...

...on ID1. Otherwise whatever option is in preferences is done. Optional script then executes a **program** that copies some (not all) **data** on ID 0 to wherever they belong on ID 1. For example this script may...

15/3, K/24 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
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00887112 **Image available**
SELF ARCHIVING LOG STRUCTURED VOLUME WITH INTRINSIC DATA PROTECTION
PROTECTION INTRINSEQUE DE DONNEES AU MOYEN D'UNE SEQUENCE STRUCTUREE DE
SESSIONS A ARCHIVAGE AUTOMATIQUE

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200221273 A2-A3 20020314 (WO 0221273)

Application: WO 2001US28420 20010910 (PCT/WO US0128420)

Priority Application: US 2000657291 20000908

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 5720

Fulltext Availability:

Detailed Description
Claims

Detailed Description

... of log 22 may exceed one reconstruction length. An agent communicating with a user, storage **application** 14, and recovery volume 92 can allow the user to cause the **index** to be moved from one synch to another causing the point in time presented to storage **application** 14 to change rapidly.

As shown in FIG. 7, time slides 95 represent different views...

Claim

... log segment and active log segments for storing blocks of an active volume, wherein the **index** shows the current position of each block in the log segments.

3 The data **backup** system of claim 2 wherein:
the self archiving log structured volume satisfies write block requests from the storage **application** by copying the written block to the end of the log and then updating the **index** with the current position of that block in the log.

4 The- data backup system...

15/3,K/25 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00823178 **Image available**

LOGICAL VIEW AND ACCESS TO DATA MANAGED BY A MODULAR DATA AND STORAGE MANAGEMENT SYSTEM

VUE LOGIQUE ET ACCES AUX DONNEES GERES PAR UN SYSTEME MODULAIRE DE GESTION DES DONNEES ET DE LEUR MEMORISATION

Patent Applicant/Assignee:

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MAY Andreas, 1 Carter Drive, Marlboro, NJ 07746, US,

Legal Representative:

PARKER Lee (agent), Commvault Systems, Inc., 2 Crescent Place, Suite B,
Oceanport, NJ 07757-0900, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200155857 A2-A3 20010802 (WO 0155857)
Application: WO 2001US3209 20010131 (PCT/WO US0103209)
Priority Application: US 2000179345 20000131; US 2001774301 20010130
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
CA
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
Publication Language: English
Filing Language: English
Fulltext Word Count: 5371

Fulltext Availability:
Detailed Description

Detailed Description

... may vary over time. However, the movement of data is tracked by the
respective data **indexes** 1024, 1032, and 1040. so that wherever the data
happens to be currently located, the **software application** 1010 may
retrieve the data without undo delay or undesired assistance.

Multiple variations exist for the retrieval system...

15/3,K/26 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00804446

APPARATUS AND METHOD FOR INCREASING THE SYNCHRONIZATION SPEED BETWEEN A
FIRST DEVICE AND A SECOND DEVICE
APPAREIL ET PROCEDE PERMETTANT D'AUGMENTER LA VITESSE DE SYNCHRONISATION
ENTRE UN PREMIER ET UN SECOND DISPOSITIFS

Patent Applicant/Assignee:

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Inventor(s):

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Legal Representative:

ERICSSON MOBILE COMMUNICATIONS AB (agent), IPR Department, S-221 83 Lund,
SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200137092 A1 20010525 (WO 0137092)
Application: WO 2000EP11160 20001110 (PCT/WO EP0011160)
Priority Application: US 99439727 19991112

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CR CU
CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ
EE EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL
IN IS JP KE KG KP KR KR (utility model) KZ LC LK LR LS LT LU LV MA MD MG
MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ
TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English
Filing Language: English
Fulltext Word Count: 5923

Fulltext Availability:

Claims

Claim

... SLOW" SYNCHRONIZATION 602
PROCESS BETWEEN FIRST DEVICE
AND SECOND DEVICE
(CREATE UID BY AMENDING
STATIC **INDEX** AND NTRUEN UID)
FIRST DEVICE REQUEST LIST 604
OF UID'S FROM SECOND DEVICE
i
FIRST DEVICE REQUEST **RETRIEVAL** OF 606
INFORMATION USING ONE OF LISTED UID'S
i
SECOND DEVICE ACCESSES DESIRED 608
RECORD USING STATIC **INDEX**
EXTRACTED FROM RECEIVED UID
i
SECOND DEVICE FORWARDS **RETRIEVED** 610
INFORMATION TO FIRST DEVICE
FIRST DEVICE STORES FORWARDED INFORMATION 612
614
FIRST DEVICE UPDATES...

15/3, K/27 (Item 7 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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00772868 **Image available**
MODULAR BACKUP AND RETRIEVAL SYSTEM
SYSTEME MODULAIRE DE RECHERCHE ET DE SECOURS
Patent Applicant/Assignee:

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OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US
PRAHLAD Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, US

Legal Representative:

BENNETT James D, Akin, Gump, Strauss, Hauer & Feld, LLP, Suite 1900, 816
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Patent and Priority Information (Country, Number, Date):

Patent: WO 200106368 A1 20010125 (WO 0106368)
Application: WO 2000US19329 20000717 (PCT/WO US0019329)
Priority Application: US 99354063 19990715
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8837

MODULAR BACKUP AND RETRIEVAL SYSTEM
Main International Patent Class: G06F-011/14
Fulltext Availability:

Detailed Description
Claims

English Abstract

The invention is a **modular** **backup** and **retrieval** system. The **software** modules making up the backup and retrieval system run independently, and can run either on the same computing **devices** or on different computing **devices**. The modular **software** system coordinates and performs backups of various computing **devices** communicating to the modules. Actions of modules on one of the computing **devices** acts as a system manager for a network backup regimen. A management component acts as a manager for the archival and restoration of the computing **devices** on the network. It manages and allocates library **media** usage, maintains backup scheduling and levels, and supervises or maintains the **archives** themselves through pruning or aging policies. The management component is not hard wired in its functionality, but may adapt to changing circumstances in these policies. A second **software** module acts as a manager for each particular library **media**. A **media** component supervises the actual **media** to which the backups are made and the retrievals are pulled from. The **media** component provides an indexing function which serves to specifically locate any **data** and/or files **archived**, as well as other administrative details about the **data**. This indexing **information** is made available to the management component for easier processing.

Detailed Description

TITLE: **MODULAR BACKUP AND RETRIEVAL SYSTEM**

SPECIFICATION

CROSS-REFERENCE To RELATED APPLICATIONS

The present **application** claims priority to U.S. Patent **Application** Serial No.

09/354,063, entitled " **Modular Backup and Retrieval System,**"
(Attorney Docket No.

044463.0013), filed July 15, 1999.

BACKGROUND

1. Technical Field

The...

...is directed to storage and retrieval systems. In particular, the invention is directed towards a **modular** **storage** and **retrieval** system for a computer or a series of interconnected computers.

2. Related Art

Conventional backup...

...wide backup and retrieval manager for the computing devices it is in contact with.

The **backup** and **retrieval** system may also take the form where the second **software** agent creates an **index** of information on the location of archived data during the course of creating an...

...library media. Thus, the location of the archived data is preserved,
3

and the second **software** agent communicates at least part of the **indexed** information to the first **software** agent. Also, the library media can comprise a plurality of different types of archival media...

...4

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. I is a schematic block diagram of a **modular** network **backup** system according to the invention.

Fig. 2 is a logical block diagram of the various...

...take.

Fig. 3 is a logical block diagram of the various possible interconnections between the **modular** portions of the **backup** system of Fig. 1.

Fig. 4 is a block diagram of an exemplary embodiment of...

...across the media.

Fig. 8 is a schematic block diagram of an embodiment of the **modular** **backup** system according to the invention.

Fig. 9 is a schematic block representation of an embodiment... configuration of the software agents.

5

Fig. 12 is a functional block diagram of the **modular** **backup** system of Fig. 8 where a computing **device** contains a management component and a **media** component for the archival of **information** from the attached computing **devices**.

6

DETAILED DESCRIPTION OF THE INVENTION

Fig. I is a schematic block diagram of a...218 include the functionality associated with a management module, or the overall management of the **modular** **backup** system.

The application sub-agent 210 stores configuration parameters and current states for each application...12

Fig. 3 is a logical block diagram of the various possible interconnections between the **modular** portions of the **backup** system of Fig. 1. A manager module 300 communicates with the various other modules in...

...350, 360, and 370 ible for the backup and archival processes for a particular computing **device**. The are responsi manager module 300 is communicatively coupled with each of the respective client...

...order to direct a cohesive systemwide backup policy involving the backup of each individual computing **device** that the particular client modules are responsible for.

Media modules 310 and 320 are also...

...the media modules 310 and 320 are responsible for operating and maintaining, respectively. Thus, a **modular**, interconnected **backup** system is shown.

Fig. 4 is a block diagram of an exemplary embodiment of the...the file 740 Fig. 8 is a schematic block diagram of an embodiment of the **modular** **backup** system according to the invention. Typically, a **modular**

backup system 800 comprises several software components, including a management component 810 communicatively coupled to least...

...or contain their functionality

15

as included modules. As such, the components of the **modular storage** and **retrieval** system 800 of a management component 810, the client component 820, and the **media** component 830 are typically **software** programs running on the respective computing **devices**.

A management component 810 is the software agent that can control the actions...through the media component II 03.

Fig. 12 is a functional block diagram of the **modular backup** system of Fig. 8 where a computing **device** contains a management component and a **media** component for the archival of infori-nation from the attached computing **devices**. A computing **device** 1210 contains a

26

management component 1211 and a **media** component of 1212. The computing **device** 1210

1212 manages and directs

communicates with a library **media** 1215. The **media** component

archival functions on the library **media** 1215.

A computing device 1220 containing a client component 1221 communicates with the computing device...

Claim

... the management software component controls backup functions for the plurality of network devices.

15 The **backup** and **retrieval** system of claim I I wherein the media **software** component creates an **index** of infori-nation on the location of archived information on the storage device, and communicates at least part of the **index** of information to the management **software** component.

30

. A **backup** and **retrieval** system for a network, the network comprising a plurality of computing devices, the plurality of...

...wherein the management component software controls backups of the plurality of computing devices.

18 The **backup** and **retrieval** system of claim 16 wherein the media component **software** creates an **index** of inforination on the location of archived information on the at least one **backup** device, and communicates at least part of the **index** of information to the management component **software**.

31

. The **backup** and **retrieval** system of claim 16 wherein the management component

I

software and the media component software...

15/3,K/28 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00772867 **Image available**

Bode Akintola

20-Aug-04

EIC 3600

**HIERARCHICAL BACKUP AND RETRIEVAL SYSTEM
SYSTEME DE SAUVEGARDE ET D'EXTRACTION HIERARCHIQUE**

Patent Applicant/Assignee:

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OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US
PRAHLAD Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, US

Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200106367 A1 20010125 (WO 0106367)
Application: WO 2000US19324 20000717 (PCT/WO US0019324)
Priority Application: US 99354058 19990715
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 6616

Main International Patent Class: **G06F-011/14**

Fulltext Availability:

Detailed Description

Detailed Description
... also be envisioned by reference to U.S. Patent Application Serial No. 09/354,063, " **MODULAR BACKUP AND RETRIEVAL SYSTEM**", filed July 15, 1999. This **application** is incorporated hereby by reference for all purposes. The details of the backup cell as...

...the reference are substantially similar to that outlined above, but are not detailed in this **application** .

Fig. 2 is functional block diagram of an embodiment of the hierarchical backup system of...

...The media component 216 is a software agent responsible for the physical operation of the **backup** device 218 during a **backup** or restore. During a **backup**, the media component 216 maintains an **index** of the data units and/or files backed up and where they are physically located on the physical **backup** device 218. The backup device 238 and the media component 236 operate in a similar...

15/3,K/29 (Item 9 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
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00772866 **Image available**

METHOD AND SYSTEM FOR BACKING UP AND RESTORING FILES STORED IN A SINGLE INSTANCE STORE
PROCEDE ET SYSTEME DE SAUVEGARDE ET DE RESTAURATION DE FICHIERS MEMORISES DANS UNE MEMOIRE A INSTANCE UNIQUE

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Legal Representative:
MICHALIK Albert S, Michalik & Wylie, PLLC, Suite 103, 14645 Bel-Red Road,
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Patent and Priority Information (Country, Number, Date):
Patent: WO 200106366 A1 20010125 (WO 0106366)
Application: WO 2000US18990 20000712 (PCT/WO US0018990)
Priority Application: US 99356383 19990716
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
CA JP
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Filing Language: English
Fulltext Word Count: 14025

Fulltext Availability:
Detailed Description

Detailed Description
... requested by **SisCSFilesToBackUpForLink**, described
below. If **countOfCommonStoreFilesToBackUp** is zero, then
commonStoreFilesToBackUp may be a **NULL pointer** and should
be ignored by the **backup application** 118.

The return value is TRUE if the call succeeded, and
FALSE otherwise. If FALSE...

...its tag, IO-REPARSE-TAG-SIS.

For each SIS link to be backed up, the **backup application**
118 should call (only once per link file)
SisCSFilesToBackUpForLink.

The **SisCSFilesToBackUpForLink** function takes as
input a **pointer** to the contents of the SIS reparse point
for a link file that the **backup application** 118 is
planning to store on the backup storage medium 122. This
function also takes the length of the reparse data as a
parameter, as well as an optional context **pointer** that is
provided by the **backup application** and uninterpreted by
the SIS DLL 116.

In accordance with one aspect of the present...of FIG. 13B first zeros
the count of
files to return and sets the array **pointer** to NULL,
whereby the **backup application** 118 will not receive a
common store filename unless needed. To this end, step
1322...

...returned status, and adds its
filename string to the array for returning to the **backup**
application. At step 1326 the
countOfCommonStoreFilesToBackUp and
commonStoreFilesToBackUp are appropriately adjusted,
after which step 1328 returns the array (i.e., its
pointer) and count to the **backup application** 118. Note
that multiple common store files corresponding to a link
file may be handled...

15/3, K/30 (Item 10 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00771260 **Image available**

MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A

STORAGE AREA NETWORK

SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION UTILISE CONJOINTEMENT
AVEC UN RESEAU A ZONE DE MEMOIRE

Patent Applicant/Assignee:

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(Residence), US (Nationality)

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OSHINSKY David A, 22 Francis Road, East Brunswick, NJ 08816, US

PRAHLAD Anand, 3 Bucknell Drive, East Brunswick, NJ 08816, US

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816 Congress Avenue, Austin, TX 78701, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200104756 A1 20010118 (WO 0104756)

Application: WO 2000US19364 20000714 (PCT/WO US0019364)

Priority Application: US 99143743 19990714; US 99143744 19990714; US
2000610738 20000706

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 5676

MODULAR BACKUP AND RETRIEVAL SYSTEM USED IN CONJUNCTION WITH A
STORAGE AREA NETWORK

Main International Patent Class: G06F-011/14

Fulltext Availability:

Detailed Description

Detailed Description

... transparent storage for each computing device.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TITLE: MODULAR BACKUP AND RETRIEVAL SYSTEM

USED IN CONJUNCTION WITH A STORAGE AREA NETWORK

SPECIFICATION

CROSS-REFERENCE To RELATED APPLICATION

This application claims the benefit of U.S. Provisional Patent

Application Serial No.

60/143,743, filed July 14, 1999, and U.S. Provisional Patent Application

...4

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic block diagram of a modular backup and retrieval system built in accordance with principles according to the present invention.

Fig. 2 is a schematic block diagram of a modular backup system working in conjunction with a storage area network (SAN) system according to principles of the present invention.

Fig. 3 is schematic...

...5

DETAILED DESCRIPTION OF THE DRAWINGS

Fig. 1 is a schematic block diagram of a **modular backup** system. A **modular backup** system 100 comprises three components, a management component 110, one or more client components 120, and one or more **media** components 130.

Typically, these three components, the management component 110, the client component 120...the computing devices may be interconnected.

Fig. 2 is a schematic block diagram of a **modular backup** system working in conjunction with a **storage** area network (SAN) system 250. A computing **device** 200 contains and operates a management component 202, which is responsible for the coordination of backup, **storage**, retrieval, and restoration of files and **data** on a computer network system 290. The management component 202 coordinates the aspects of these

8

functions with a client component 212, running on another computing **device** 210, and a

C,

client component 222 running on yet another computing **device** 220. The computing **device** 220 also has an attached **data storage device** 214, to which it can store **data** and files locally.

The computing devices 210, 220, and 230 are connected to the SAN...

15/3,K/31 (Item 11 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00771259 **Image available**
MODULAR BACKUP AND RETRIEVAL SYSTEM WITH AN INTEGRATED STORAGE AREA
FILE SYSTEM

SYSTEME MODULAIRE DE SAUVEGARDE ET DE RECUPERATION AVEC SYSTEME DE FICHIER
DE ZONE DE MEMOIRE INTEGRE

Patent Applicant/Assignee:

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200104755 A1 20010118 (WO 0104755)

Application: WO 2000US19363 20000714 (PCT/WO US0019363)

Priority Application: US 99143743 19990714; US 99143744 19990714; US
2000609977 20000705

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 5195

MODULAR BACKUP AND RETRIEVAL SYSTEM WITH AN INTEGRATED STORAGE AREA
FILE SYSTEM

Main International Patent Class: G06F-011/14

Fulltext Availability:

Detailed Description

Claims

Detailed Description

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TITLE: **MODULAR BACKUP AND RETRIEVAL SYSTEM WITH AN**

INTEGRATED STORAGE AREA FILE SYSTEM

SPECIFICATION

CROSS-REFERENCES To RELATED APPLICATIONS

This **application** claims the benefit of U.S. Provisional Patent **Application** Serial Nos.

60/143,744, and 60/143,743), both filed July 14, 1999, pending, and U.S. Patent Application entitled " **Modular Backup** and **Retrieval** System With An Integrated Stora e Area File
9
System", filed July 5, 2000, Serial...

...60/143,743, both filed July 14, 1999, pending, and U.S. Patent Application entitled " **Modular Backup** and **Retrieval** System With An Integrated **Storage** Area File System", filed July 5, 2000, Serial No.

BACKGROUND

1. Technical Field.

The present...

...computer networks. In particular, the present invention is directed towards the implementation- of a distributed, **modular backup** system with a storacre area network (SAN) system, and the use of the **modular ID backup** system under the SAN file system.

. Related Art.

Conventional backup devices usually employ a monolithic...

...computing devices may be interconnected. In still other embodiments, the storage system may include a **modular backup** system that works in conjunction with a **storage** area network (SAN) system. Of course, the infon-nation in the storacre system may be **data** or files and the computing **device**
2)
may include an attached **data storage device**, to which it can store **data** and files locally. The computing **devices** of the **storage** system may be connected to the SAN system via a direct fiber channel connection, a...

...follow.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. I is a schematic block diagram of a **modular backup** and **retrieval** system built in accordance with principles according to the present invention.

ID

Flu. 2 is a schematic block diaerram of a **modular backup** system working in conjunction with a **storage** area network (SAN) system according to principles of the present

0
invention.

Ficy. 3 is...

...system maintained by the SAN system implementing a path extension to data archived by the **modular backup** system, all of Fig. 2.

DETAILED DESCRIPTION OF THE DRAWINGS

Ficy. I is a schematic block diagram of a **modular backup** system. A **modular backup** system I 00 comprises three components, a management component II 0, one or more client components 120, and one or more **media** components 130.

Typically, the three components comprising the management component 110, the client component 120...D computing devices may be interconnected.

Fig. 2 is a schematic block diagram of a **modular backup** system working in conjunction with a **storage** area network (SAN) system 250. A computing **device** 200 contains and operates a management component 202, which is responsible for the coordination of backup, **storage**, retrieval, and restoration of files and **data** on a computer network system 290. The management component 202 coordinates the aspects of these functions -vvith a client component 212, running on another computing **device** 210, and a client component 222 running on yet another computing **device** 220. The computing **device** 220 also has an attached **data storage device** 214, to which it can store **data** and files locally.

The computing devices 210, 220, and 230 are connected to the SAN...file processor of a SAN system implementing a path extension to data archived by the **modular backup** system, all of Fig. 2. The normal network file system has a root directory "/", with various partitions relating to different functions and or different **data** sets as determined by the functions and configurations of the computing **devices** 210, 220, and 230, all of Fig. 2. In this embodiment, the **archived** portion of the network file system resides in the SUbdirectory "Backups/".

As each archive backup...

Claim

... the computing devices are interconnected.

6 The storage system of claim I further comprising a **modular backup** system that . The **storage** system of claim I wherein the **information** in the **storage** system comprises **data** . S. The **storage** system of claim I wherein the infoiniation in the **storage** system comprises files.

9 The storage system of claim I wherein the computing device further...

15/3,K/32 (Item 12 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00764225 **Image available**
SYSTEM AND METHOD FOR GENERATING A BACKUP COPY OF A STORAGE MEDIUM
SYSTEME ET PROCEDE POUR REALISER UNE COPIE DE SECURITE D'UNE MEMOIRE
Patent Applicant/Assignee:

MICROSOFT CORPORATION, One Microsoft Way, Redmond, WA 98052, US, US
(Residence), US (Nationality)

Inventor(s):
WATSON Brandon L, 16918 SE 38th Place, Bellevue, WA 98008, US
GASCH Scott M, 12626 NE 114th Place, Kirkland, WA, US
GUITTET Michel, 11014 167th Court, Redmond, WA 98052, US

Legal Representative:
CHANG Y Kurt, Leydig, Voit & Mayer, Ltd., Two Prudential Plaza, Suite 4900, 180 North Stetson, Chicago, IL 60601-6780, US

Patent and Priority Information (Country, Number, Date):
Patent: WO 200077641 A1 20001221 (WO 0077641)
Application: WO 2000US16413 20000614 (PCT/WO US0016413)
Priority Application: US 99333741 19990615

Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English
Filing Language: English
Fulltext Word Count: 6196

Fulltext Availability:
Detailed Description

Detailed Description
... exactly on the sector level. If such match is not maintained, there could be file **pointers** that point to old sectors with old data, causing a read failure. Thus, one bad sector could render the entire **backup** image useless.

To guarantee consistency between the sectors on the main disk and those on...

15/3, K/33 (Item 13 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
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00296122
METHOD AND SYSTEM FOR TRACKING CHANGED FILES
PROCEDE ET SYSTEME POUR ASSURER LE SUIVI DE FICHIERS MODIFIES

Patent Applicant/Assignee:
ZBIKOWSKI Mark,
BERKOWITZ Brian T,
FERGUSON Robert I,

Inventor(s):
ZBIKOWSKI Mark,
BERKOWITZ Brian T,
FERGUSON Robert I,

Patent and Priority Information (Country, Number, Date):
Patent: WO 9514273 A1 19950526
Application: WO 94US13347 19941118 (PCT/WO US9413347)
Priority Application: US 93154582 19931118

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 8069

Fulltext Availability:

Detailed Description

Detailed Description

... value from a file which the system has processed to update the file's content **index**. For each **retrieved** update sequence number that is greater than the threshold value, the file identifier 201 of...the preferred

embodiment of the resent invention, the background processing involves p

updating the content **indices** of the files. In this way, information about any file 137 can be **retrieved** quickly and easily from the content **index**. Nevertheless, those skilled in the art will appreciate that the present invention may also be...

15/3,K/34 (Item 14 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00295431 **Image available**

DATA BACKUP AND RESTORE SYSTEM FOR A COMPUTER NETWORK

SYSTEME DE SAUVEGARDE ET DE RESTAURATION DE DONNEES POUR RESEAU INFORMATIQUE

Patent Applicant/Assignee:

ARCADA SOFTWARE,

Inventor(s):

FLETCHER Douglas J,

DEVOS Steven Robert,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9513580 A1 19950518

Application: WO 94US12915 19941109 (PCT/WO US9412915)

Priority Application: US 93488 19931109

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

CA CN JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 13108

Fulltext Availability:

Detailed Description

Detailed Description

... SUBSTITUTE SHEET (RULE 26)

@1

.13 GRFS-SEEK-OBJ, GRFS-SEEK-OBJ-STAT

The backup **application** uses the GRFS-SEEK-OBJ command to force the GRFS agent to move the previously opened object's file location **pointer** to a specific offset within the object. This command is typically used by the **backup application** to seek past sectors which are unreadable in hopes that some of the data may...

15/3,K/35 (Item 15 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT
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00269301

APPARATUS AND METHOD FOR BACKING UP DATA FROM NETWORKED COMPUTER STORAGE
DEVICES

APPAREIL ET PROCEDE DE SAUVEGARDE DE DONNEES A PARTIR DE DISPOSITIFS DE
MEMORISATION INTERNE INTERCONNECTES

Patent Applicant/Assignee:

APPLE COMPUTER INC,

Inventor(s):

KULLICK Steven E,

SPIRAKIS Charles S,

TITUS Diane J,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9417474 A1 19940804

Application: WO 94US765 19940119 (PCT/WO US9400765)

Priority Application: US 937159 19930121

Designated States:

(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)

AT AU BB BG BR BY CA CH CZ DE DK ES FI GB HU JP KP KR KZ LK LU MG MN MW
NL NO NZ PL PT RO RU SD SE SK UA VN AT BE CH DE DK ES FR GB GR IE IT LU
MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 11137

Fulltext Availability:

Detailed Description

Detailed Description

... the full index at the conclusion of the second state merge will match
those in **index** 36b.

FIG. 4D shows the third state of a **backup** cycle 71. As previously
stated, the third state of a **backup** cycle begins when a specified,
predetermined time or event occurs or a transfer operation from...
includes commands to exchange information about which backup operation is
being performed, which version of **software** is executing, which zones
are on a network, which zone should be backed up, and for transferring a
full **index** 36, an **index** entry 50 or a **backup** data file 38.

The foregoing description has used a specific embodiment of this
invention. It...

Set	Items	Description
S1	32	AU=(OSHINSKY D? OR OSHINSKY, D?)
S2	2430456	SOFTWARE OR APPLICATION OR PROGRAM?
S3	6358	(PHYSICAL OR STORAGE) (1N) ADDRESS?
S4	132805	BACKUP OR BACK()UP OR RETRIEV?
S5	295192	STORAGE? OR ARCHIVE?
S6	3407680	DATA OR INFORMATION OR INFO
S7	348070	INDEX?? OR INDICES OR POINTER? ?
S8	1255362	MEDIA OR MEDIUM OR DEVICE?
S9	752	S3 AND S4
S10	4	S9 AND S2 AND S7
S11	17819	S2(3N)MODUL?
S12	261	S11 AND (INDEX? OR INDICES)
S13	28	S12 AND S4
S14	23	S11 AND S3
S15	55	S13 OR S14 OR S10
S16	44	S15 NOT PY>1999
S17	44	S16 NOT PD=19990715:20040820
S18	43	RD (unique items)
File	2:INSPEC 1969-2004/Aug W3	
		(c) 2004 Institution of Electrical Engineers
File	35:Dissertation Abs Online 1861-2004/Jul	
		(c) 2004 ProQuest Info&Learning
File	65:Inside Conferences 1993-2004/Aug W3	
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File	99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul	
		(c) 2004 The HW Wilson Co.
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	
		(c) 2003 EBSCO Pub.
File	474:New York Times Abs 1969-2004/Aug 19	
		(c) 2004 The New York Times
File	475:Wall Street Journal Abs 1973-2004/Aug 19	
		(c) 2004 The New York Times
File	583:Gale Group Globalbase(TM) 1986-2002/Dec 13	
		(c) 2002 The Gale Group
File	256:TecInfoSource 82-2004/Jul	
		(c)2004 Info.Sources Inc

18/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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6189412 INSPEC Abstract Number: C1999-04-1230D-062

Title: Neural networks realization of searching models for Nash equilibrium points and their application to associative memories

Author(s): Horie, R.; Aiyoshi, E.

Author Affiliation: Dept. of Instrum. Eng., Keio Univ., Yokohama, Japan

Conference Title: SMC'98 Conference Proceedings. 1998 IEEE International Conference on Systems, Man, and Cybernetics (Cat. No.98CH36218) Part vol.2 p.1886-91 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1998 Country of Publication: USA 5 vol. 4945 pp.

ISBN: 0 7803 4778 1 Material Identity Number: XX-1998-03098

U.S. Copyright Clearance Center Code: 0 7803 4778 1/98/\$10.00

Conference Title: SMC '98 Conference Proceedings. 1998 IEEE International Conference on Systems, Man, and Cybernetics

Conference Sponsor: IEEE

Conference Date: 11-14 Oct. 1998 Conference Location: San Diego, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: We propose a new mutually coupled plural neural networks (NN) **modules** and its **application** to associative memories from the view point of noncooperative game theory. First, we propose a new dynamical searching model named parallel steepest descent method with braking operators (PSDMB) which searches the Nash equilibrium (NE) points under $[0, 1]$ -interval or nonnegative constraints. Second, we propose a new mutually coupled plural NN modules named game neural networks (GNN) to realize the proposed PSDMB with quadratic objective functions. In addition, we indicate relations between the PSDMB, the GNN and the Lotka-Volterra equation. Last, for an application of the proposed GNN, we propose two kinds of multimodular associative memories which can associate the combined patterns composed of plural partial patterns: (1) the combined patterns are stored as the NE points and robust for noisy inputs; (2) the circulative sequence of the combined patterns are stored as saddles of a heteroclinic cycle. (6 Refs)

Subfile: C

Descriptors: content- **addressable** storage ; game theory; neural nets; search problems

Identifiers: mutually coupled multiple neural network modules; searching models; noncooperative game theory; dynamical searching model; parallel steepest descent method; braking operators; PSDMB; Nash equilibrium points; $[0, 1]$ -interval; nonnegative constraints; game neural networks; GNN; quadratic objective functions; Lotka-Volterra equation; multimodular associative memories; multiple partial patterns; noisy input robustness; circulative sequence; heteroclinic cycle saddles

Class Codes: C1230D (Neural nets); C1140E (Game theory)

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18/5/2 (Item 2 from file: 2)

DIALOG(R)File 2:INSPEC

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5921482 INSPEC Abstract Number: C9807-6130D-001

Title: Classification of documents by form and content

Author(s): Maderlechner, G.; Suda, P.; Bruckner, T.

Author Affiliation: Corp. Res. & Dev., Siemens AG, Munich, Germany

Journal: Pattern Recognition Letters Conference Title: Pattern Recognit. Lett. (Netherlands) vol.18, no.11-13 p.1225-31

Publisher: Elsevier,
Publication Date: Nov. 1997 Country of Publication: Netherlands
CODEN: PRLEDG ISSN: 0167-8655
SICI: 0167-8655(199711)18:11/13L.1225:CDFC;1-4
Material Identity Number: D719-98004
U.S. Copyright Clearance Center Code: 0167-8655/97/\$17.00
Conference Title: Pattern Recognition in Practice V
Conference Date: 4-6 June 1997 Conference Location: Vlieland,
Netherlands
Document Number: S0167-8655(97)00098-6
Language: English Document Type: Conference Paper (PA); Journal Paper
(JP)
Treatment: Practical (P); Experimental (X)
Abstract: This paper presents a **modular software** system, which classifies a large variety of office documents according to layout form and textual content. It consists of the following components: layout analysis, pre-classification, OCR interface, fuzzy string matching, text categorization, and lexical, syntactical and semantic analysis. The system has been applied to the following tasks: presorting of forms, reports and letters, **index** extraction for archiving and **retrieval**, page type classification and text column analysis of real estate register documents, in-house mail sorting and electronic distribution to departments. The architecture, modules, and practical results are described. (11 Refs)
Subfile: C
Descriptors: business forms; document image processing; fuzzy set theory; image segmentation; office automation; optical character recognition; pattern classification; string matching; text editing
Identifiers: **modular software**; office documents; form layout; text classification; document classification; fuzzy string matching; text categorization; lexical analysis; document image processing; document segmentation; **index** extraction; document archiving; OCR interface
Class Codes: C6130D (Document processing techniques); C5260B (Computer vision and image processing techniques); C7104 (Office automation)
Copyright 1998, IEE

18/5/3 (Item 3 from file: 2)

DIALOG(R) File 2:INSPEC

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5621523 INSPEC Abstract Number: C9708-7430-003

Title: **Kanerva's sparse distributed memory: an object-oriented implementation on the Connection Machine**

Author(s): Turk, A.; Gorz, G.

Author Affiliation: German Res. Center for Artificial Intelligence,
Kaiserslautern, Germany

Conference Title: IJCAI-95. Proceedings of the Fourteenth International
Joint Conference on Artificial Intelligence Part vol.1 p.473-9 vol.1

Editor(s): Mellish, C.S.

Publisher: Morgan Kaufmann Publishers, San Mateo, CA, USA

Publication Date: 1995 Country of Publication: USA 2 vol.
(xxx+xiii+2077) pp.

Material Identity Number: XX95-01996

Conference Title: Proceedings of International Joint Conference on
Artificial Intelligence

Conference Sponsor: Int. Joint Conferences on Artificial Intelligence;
American Assoc. Artificial Intelligence; Canadian Soc. Computational
Studies of Intelligence; Soc. Canadienne pour l'etude de l'intelligence par
ordinateur

Conference Date: 20-25 Aug. 1995 Conference Location: Montreal, Que.,
Canada

Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: Reports on an implementation of P. Kanerva's (1988, 1992) sparse distributed memory (SDM) for the Connection Machine. In order to accomplish a **modular** and adaptive **software** library, we applied a plain object-oriented programming style to the Common Lisp extension *lisp. Some variations of the original model-the selected coordinate design, the hyperplane design and a new general design, as well as the folded SDM due to Kanerva-are realized. It has been necessary to elaborate a uniform presentation of the theoretical foundations the different designs are based on. We demonstrate the simulator's functionality with some simple applications. Runtime comparisons are given. We encourage the use of our simulation tool when outlining research topics of special interest to SDM.
(16 Refs)
Subfile: C
Descriptors: content- **addressable** **storage** ; distributed memory systems; LISP; object-oriented programming; parallel machines; software libraries; virtual machines
Identifiers: sparse distributed memory; object-oriented programming; Connection Machine; **modular** adaptive **software** library; Common Lisp; *lisp; selected coordinate design; hyperplane design; general design; folded SDM; simulator functionality; runtime comparisons
Class Codes: C7430 (Computer engineering); C5220P (Parallel architecture); C5440 (Multiprocessing systems); C6110J (Object-oriented programming); C6140D (High level languages); C5340 (Associative storage)
Copyright 1997, IEE

18/5/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
5519539 INSPEC Abstract Number: C9704-7440-062
Title: The SEED project: a Software Environment to support the Early phases in building Design
Author(s): Woodbury, R.; Flemming, U.; Coyne, R.; Fenves, S.; Garrett, J.
Author Affiliation: Dept. of Archit., Adelaide Univ., SA, Australia
Conference Title: Industrial and Engineering Applications of Artificial Intelligence and Expert Systems. Proceedings of the Eighth International Conference p.781-6
Editor(s): Forsyth, G.F.; Ali, M.
Publisher: Gordon & Breach, Newark, NJ, USA
Publication Date: 1995 Country of Publication: USA 857 pp.
ISBN: 2 88449 198 8 Material Identity Number: XX95-01118
Conference Title: Proceedings 8th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems
Conference Date: 6-8 June 1995 Conference Location: Melbourne, Vic., Australia
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: SEED is a collection of **software** **modules** intended to support the early phases of building design. The system incorporates the results from two multi-generational research efforts on grammar-based design generation and offers designers a broad range of form generation tools, from interactive construction that is controlled by the designer to the automated generation of design alternatives and case-based design. The system will eventually combine these capabilities with a broad range of analysis, evaluation, and visualization tools. The SEED modules are based on a shared logic and are accessible through a shared interface. This logic results from a uniform problem-solving view underlying the tasks supported

by modules. The key is a uniform problem specification based on functional units which allow a module to participate actively in form generation and support a uniform case **indexing** and **retrieval** mechanism across modules and across problem decompositions within a module. (18 Refs)

Subfile: C

Descriptors: architectural CAD; case-based reasoning; intelligent design assistants

Identifiers: SEED project; **software modules**; building design; early phases; grammar-based design generation; interactive construction; automated generation; design alternatives; case-based design; visualization tools; shared logic; problem-solving

Class Codes: C7440 (Civil and mechanical engineering computing); C6170 (Expert systems)

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18/5/5 (Item 5 from file: 2)

DIALOG(R) File 2:INSPEC

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4985881 INSPEC Abstract Number: B9508-1295-018, C9508-5190-013

Title: **VLSI neural network architectures**

Author(s): Sridhar, R.; Yong-Chul Shin

Author Affiliation: Dept. of Electr. & Comput. Eng., State Univ. of New York, Buffalo, NY, USA

p.560-9

Editor(s): D'Luna, L.J.; Brown, G.W.; Lee, P.P.K.

Publisher: IEEE, New York, NY, USA

Publication Date: Sept. 1993 Country of Publication: USA xvii+582 pp.

ISBN: 0 7803 1375 5

U.S. Copyright Clearance Center Code: 0-7803-1375-5/93/\$03.00

Conference Title: Sixth Annual IEEE International ASIC Conference and Exhibit

Conference Sponsor: IEEE

Conference Date: 27 Sept.-1 Oct. 1993 Conference Location: Rochester, NY, USA

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G); Practical (P)

Abstract: VLSI architectures for neural networks are presented. Neural networks have wide-ranging applications in classification, control, and optimization. With the need for real-time performance, VLSI neural networks have gained significant attention. Digital, analog, and mixed-mode designs are used for this **application**. **Modular** and reconfigurable designs are necessary so that various neural network models can be easily configured.

(47 Refs)

Subfile: B C

Descriptors: analogue processing circuits; application specific integrated circuits; content- **addressable storage**; mixed analogue-digital integrated circuits; neural chips; neural net architecture; reconfigurable architectures; VLSI

Identifiers: tutorial; chip implementations; reconfigurable ASIC; digital designs; analog designs; on-chip learning; associative memory; VLSI architectures; neural networks; mixed-mode designs; reconfigurable designs

Class Codes: B1295 (Neural nets (circuit implementations)); B2570 (Semiconductor integrated circuits); B1280 (Mixed analogue-digital circuits); B1285 (Analogue processing circuits); C5190 (Neural net devices); C5290 (Neural computing techniques); C5220P (Parallel architecture); C5340 (Associative storage)

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18/5/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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4932109 INSPEC Abstract Number: C9506-5340-001

Title: Labelling recursive auto-associative memory

Author(s): Sperduti, A.

Author Affiliation: Dipartimento di Inf., Pisa Univ., Italy

Journal: Connection Science vol.6, no.4 p.429-59

Publication Date: 1994. Country of Publication: UK

CODEN: CNTSEU ISSN: 0954-0091

U.S. Copyright Clearance Center Code: 0954-0091/94/\$6.50

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: Proposes an extension to the recursive auto-associative memory (RAAM) by Pollack. This extension, the labelling RRAM (LRARM), can encode labelled graphs with cycles by representing pointers explicitly. Some technical problems encountered in the RRAM; such as the termination problem in the learning and decoding processes, are solved more naturally in the LRAAM framework. The representations developed for the pointers seem to be robust to recurrent decoding along a cycle. Theoretical and experimental results show that the performances of the proposed learning scheme depend on the way the graphs are represented in the training set. Critical features for the representation are cycles and confluent pointers. Data encoded in a LRAAM can be accessed by a pointer as well as by content. Direct access by content can be achieved by transforming the encoder network of the LRARM into a particular bidirectional associative memory (BAM). Statistics performed on different instances of LRAAM show a strict connection between the associated BAM and a standard BAM. Different access procedures can be defined depending on the access key. The access procedures are not wholly reliable; however, they seem to have a good success rate. The generalization test for the RAAM is no longer complete for the LRAAM. Some suggestions on how to solve this problem are given. Some results on modular LRAAM, stability and application to neural dynamics control are summarized. (31 Refs)

Subfile: C

Descriptors: content- addressable storage ; generalisation (artificial intelligence); learning (artificial intelligence); neural nets

Identifiers: labelling recursive auto-associative memory; labelled graphs ; termination problem; learning; decoding processes; bidirectional associative memory; access procedures; neural dynamics control; stability

Class Codes: C5340 (Associative storage); C1230D (Neural nets); C5290 (Neural computing techniques)

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18/5/7 (Item 7 from file: 2)

DIALOG(R)File 2:INSPEC

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4905325 INSPEC Abstract Number: B9504-1265D-040, C9504-5340-008

Title: On the access by content capabilities of the LRAAM

Author(s): Sperduti, A.; Starita, A.

Author Affiliation: Dept. of Comput. Sci., Pisa Univ., Italy

Part vol.2 p.1143-8 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1994 Country of Publication: USA 7 vol. (lxvii+lxii+4796) pp.

ISBN: 0 7803 1901 X

U.S. Copyright Clearance Center Code: 0 7803 1901 X/94/\$4.00

Conference Title: Proceedings of 1994 IEEE International Conference on

Neural Networks (ICNN'94)

Conference Date: 27 June-2 July 1994 Conference Location: Orlando, FL, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Theoretical (T)

Abstract: The labeling RAAM (LRAAM) is a neural network able to encode data structures in fixed size patterns, thus allowing the **application** of neural networks to structured domains. Moreover, the structures stored into an LRAAM can be accessed both by **pointer** and by content. In this paper we briefly discuss basic and generalized associative access procedures for the LRAAM. Basic procedures are obtained by transforming the LRAAM network into a BAM. Different constrained versions of the BAM are used depending on the key(s) used to **retrieve** information. Generalized procedures are implemented by generalized Hopfield networks (GHN) which are built both by composing the subset of weights compounding the LRAAM and according to the query used to **retrieve** information. Some examples for generalized procedures are given. (19 Refs)

Subfile: B C

Descriptors: content- **addressable** storage ; data structures; Hopfield neural nets; random-access storage

Identifiers: labeling RAAM; content capabilities; neural network; LRAAM; data structures; generalized Hopfield networks; associative memory

Class Codes: B1265D (Memory circuits); C5340 (Associative storage); C5320 (Digital storage); C6120 (File organisation)

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18/5/8 (Item 8 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

4806050 INSPEC Abstract Number: C9412-5440-023

Title: **Associative massively parallel computers**

Author(s): Lea, R.M.; Jalowiecki, I.P.; Bogdany, J.; Vesztregombi, G.

Author Affiliation: Brunel Univ., Uxbridge, UK

p.1-10

Editor(s): Bogdany, J.; Vesztregombi, G.

Publisher: Hungarian Acad. Sci, Budapest, Hungary

Publication Date: 1994 Country of Publication: Hungary 121 pp.

Conference Title: Workshop on Parallel Processing. Technology and Applications

Conference Date: 10-11 Feb. 1994 Conference Location: Budapest, Hungary

Language: English Document Type: Conference Paper (PA)

Treatment: General, Review (G)

Abstract: Massively parallel computers (MPCs) are playing an important role in providing powerful computing environments for a wide variety of computationally intensive applications requiring up to tera-operations per second (TOPS) performance levels. Associative processing involves a particularly flexible and naturally parallel form of symbolic representation and manipulation of structured data processing (via sets, arrays, tables, trees and graphs) with potential benefits in simplicity of expression, storage capacity, and speed of execution over a wide range of non-numerical and numerical information processing applications. Emerging from long-term research at Brunel University (UK) and being developed by Aspex Microsystems, ASP (Associative String Processor) **modules** (and support **software**) comprise highly versatile and fault-tolerant building-blocks for the simple construction of dynamically reconfigurable low-MIMD/high-SIMD second-generation MPC systems. The ASP offers step-function improvements in the size, weight, power consumption,

reliability, and implementation costs of numeric and symbolic information processing systems. ASP modules offer the prospect of breaking through the cost-effectiveness barrier currently impeding the wider commercial exploitation of massively parallel computing systems. It can be predicted that traditional supercomputers will be superseded by massively parallel computers. Cost-effective embedded MPCs could stimulate a much larger supercomputer market than that estimated to reach \$1 billion by 1996. (0 Refs)

Subfile: C

Descriptors: content- addressable storage ; parallel machines

Identifiers: associative massively parallel computers; tera-operations per second performance levels; associative processing; symbolic representation; symbol manipulation; structured data processing; expression simplicity; storage capacity; execution speed; nonnumerical information processing applications; numerical information processing applications; Aspec Microsystems; ASP modules; Associative String Processor; versatile fault-tolerant building-blocks; dynamically reconfigurable systems; low-MIMD/high-SIMD systems; cost-effectiveness; supercomputer market

Class Codes: C5440 (Multiprocessor systems and techniques); C5340 (Associative storage)

18/5/9 (Item 9 from file: 2)

DIALOG(R) File 2:INSPEC

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4666952 INSPEC Abstract Number: A9412-2960-002, B9406-1260-004

Title: Fast, versatile modules increasing the conversion gain of multichannel analyzers in multiparameter measurements

Author(s): Imperiale, C.

Author Affiliation: Med. Technol. & Electron. Lab., Lecce, Italy

Journal: IEEE Transactions on Nuclear Science vol.41, no.1, pt.2 p. 299-306

Publication Date: Feb. 1994 Country of Publication: USA

CODEN: IETNAE ISSN: 0018-9499

U.S. Copyright Clearance Center Code: 0018-9499/94/\$04.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The design of a fast, versatile associative module (AM) increasing the conversion gain of multichannel analyzers (MA) in multiparameter measurements is reported. The design is especially suitable for pulse height spectrum measurements from high counting rate sources as would be found in reactor sample on-line monitoring systems, being able to acquire spectrum data at input rates in excess of 10^{5} Hz. Specific characteristics of the instrumentation are as follows: 1) the system's basic structure is implemented by one multichannel analyzer and one associative module, and allows a programmable conversion gain. The maximum achievable conversion gain is 2^{60} . If the MA dead time is shorter than the AM dead time, the dead time of the system is equal to 340 ns. 2) The basic structure can be expanded vertically and horizontally; the expanded structures keep the original speed of the basic one. The MA conversion varies according to the AM selected expansion, ranging from 2^{21} to 2^{100} ; 3) to solve the problem of fast real-time spectrum acquisition speed, fast electronics is used. Electronics is autonomous in the spectrum acquisition, updating and graphical phases, while it is under computer control in both phases of the system's initialization and for transfer of the updated spectrum data from the MA buffer memory unit to the host; and 4) the system is constructed from commercially available components. Their high integration and speed have led to a powerful, compact, flexible instrumentation system while minimizing cost at the same time. (17 Refs)

Subfile: A B
Descriptors: content- addressable storage ; detector circuits; nuclear electronics; pulse height analysers
Identifiers: fast; associative module; conversion gain; multichannel analyzers; multiparameter measurements; pulse height measurements; dead time; computer control; 340 ns
Class Codes: A2960E (Pulse counting assemblies; counting scalers, analyzers); B1260 (Pulse circuits); B1265D (Memory circuits); B7430 (Counting circuits and electronics)
Numerical Indexing: time 3.4E-07 s

18/5/10 (Item 10 from file: 2)
DIALOG(R)File 2:INSPEC
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4518168 INSPEC Abstract Number: C9312-7240-025
Title: Thesaurus modules in text management software
Author(s): Rowley, J.
Author Affiliation: Dept. of Libr. & Inf. Sci., Manchester Polytech., UK
Conference Title: Text Retrieval: Information First. Proceedings of the Institute of Information Scientists 1990 Text Retrieval Conference p. 16-33
Editor(s): Gillman, P.
Publisher: Taylor Graham, London, UK
Publication Date: 1991 Country of Publication: UK 126 pp.
Conference Date: 31 Oct.-1 Nov. 1990 Conference Location: London, UK
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: The paper provides an overview of thesaurus modules available in text management software. Controlled indexing languages, as embodied in thesauri, have long been used to enhance the retrieval performance of text databases. The results of a survey of thesaurus modules are reported and some comparisons made between the various thesaurus modules. Characteristics considered in this comparison include: the nature of the software package, price range, systems on which the software runs, the format of the thesaurus, the types of relationships that can be stored in the thesaurus, any limits on indexing terms and their relationships, facilities for the creation and maintenance of thesauri and the ways in which the thesaurus may be used in searching. (4 Refs)
Subfile: C
Descriptors: full-text databases; indexing ; software packages; thesauri
Identifiers: controlled indexing languages; thesaurus modules; text management software; retrieval performance; text databases; software package; price; maintenance; searching
Class Codes: C7240 (Information analysis and indexing); C7250L (Non-bibliographic systems)

18/5/11 (Item 11 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04372355 INSPEC Abstract Number: C9305-7260-003
Title: Software evaluation in a library and information science curriculum
Author(s): Groeniger, B.O.
Author Affiliation: Rijkshogesch. Groningen, Netherlands
Conference Title: Information 90. Proceedings of the Third International Conference p.256-61
Editor(s): Rowley, J.

Publisher: Aslib, London, UK
Publication Date: 1991 Country of Publication: UK xii+388 pp.
ISBN: 0 85142 275 6
Conference Sponsor: Aslib; Assoc. Inf. Manage.; Council Polytech. Libr.;
Inst. Inf. Sci.; Libr. Assoc.; Soc. Archivists
Conference Date: 17-20 Sept. 1990 Conference Location: Bournemouth, UK
Language: English Document Type: Conference Paper (PA)
Treatment: General, Review (G)
Abstract: Since the restructuring of the curriculum of the Dutch Library and Information Science Schools, the curriculum emphasises the information needs of the user and the intermediate role of the information professional. In the fourth and final year students must choose one of the three available 'majors' and a terminal project corresponding with the chosen major. Software evaluation is one of the modules comprising the major in indexing systems and information technology. The main objectives of the software evaluation module are: the student gains a basic knowledge of and insight into the different phases of the automation development process in general and of the information environment in particular; the student can individually evaluate software on the basis of specific criteria; the student is capable of 'transferring' the results of these evaluations both orally and in written form during plenary sessions; the student is capable of comparing information storage and retrieval systems (ISRS) and (integrated) library software packages; and the student is capable of drawing individual conclusions and making recommendations, resulting in individual advice to the manager. (0 Refs)
Subfile: C
Descriptors: computer science education; educational courses; information science; libraries; software selection
Identifiers: library and information science curriculum; Dutch Library and Information Science Schools; information needs; intermediate role; information professional; students; indexing systems; information technology; software evaluation; automation development process; information environment; plenary sessions; information storage and retrieval systems; library software packages
Class Codes: C7260 (Information science education); C0310H (Equipment and software evaluation methods); C0220 (Education and training)

18/5/12 (Item 12 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.
04286372 INSPEC Abstract Number: C9301-7210-013
Title: The Gmelin Information System
Author(s): Nebel, A.; Tolle, U.; Olbrich, G.; Deplanque, R.; Fluck, E.
Author Affiliation: Gmelin Inst. for Inorg., Chem., Frankfurt-am-Main, Germany
Conference Title: Online Information 91. 15th International Online Information Meeting Proceedings p.73-9
Editor(s): Raitt, D.I.
Publisher: Learned Inf, Oxford, UK
Publication Date: 1991 Country of Publication: UK xiv+543 pp.
ISBN: 0 904933 79 2
Conference Date: 10-12 Dec. 1991 Conference Location: London, UK
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P); Product Review (R)
Abstract: The Gmelin Information System presents scientific information in the fields of inorganic, organometallic and physical chemistry on two different media, the Gmelin Handbook and the Gmelin Factual Database. Both components, the handbook and the factual database, will be integrated into the Gmelin Information System. Therefore, the primary information for

handbook production (information about compounds, facts, and bibliographic data) will be delivered from the Gmelin Database. The main qualities, of both the handbook, which are described and of the database (availability of online factual information) should be able to be retained. As a software interface between the handbook and the database, the authors have developed for Gmelin Electronic Card **Index**. It is the card file for handbook production and employs advanced methods of electronic data processing. The development was based on the hypertext program CAMS4 (Juniper Systems Partnership). The new developments for the Gmelin Electronic Card **Index** include a flexible generator of database templates and functions for direct access to ADABAS database files under VAX/VMS. A **program module** for creating a separated working set was implemented for use in the handbook department. This working set allows handling of database contents without direct access to ADABAS. (3 Refs)

Subfile: C

Descriptors: chemistry computing; hypermedia; **indexing** ; information **retrieval** systems; information services

Identifiers: inorganic/organometallic chemistry; Gmelin Information System; scientific information; physical chemistry; Gmelin Handbook; Gmelin Factual Database; handbook production; bibliographic data; online factual information; software interface; Gmelin Electronic Card **Index** ; card file; electronic data processing; hypertext program CAMS4; database templates; ADABAS database files; VAX/VMS; **program module** ; separated working set

Class Codes: C7210 (Information services and centres); C7250 (Information storage and retrieval); C6160Z (Other DBMS); C7320 (Physics and Chemistry)

18/5/13 (Item 13 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04268095 INSPEC Abstract Number: B9212-6210L-048, C9212-5670-005

Title: The FELINE performance analyzer

Author(s): Held, G.

Journal: International Journal of Network Management vol.1, no.2 p. 105-8

Publication Date: Dec. 1991 Country of Publication: UK

ISSN: 1055-7148

U.S. Copyright Clearance Center Code: 1055-7148/91/020105-04\$05.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Product Review (R)

Abstract: The author examines the Frederick Engineering performance analyzer module sold for use with their FELINE protocol analyzer. The use of the FELINE performance analyzer allows one to determine the overall utilization of point-to-point and multidrop lines, identify line usage by the individual physical unit and logical unit addresses, calculate communications and network response times and obtain other performance measurements. The Performance Analyzer is a **software module** which is designed to work in conjunction with FELINE hardware and software. (0 Refs)

Subfile: B C

Descriptors: computer networks; performance evaluation; protocols; telecommunication channels; telecommunications computing

Identifiers: point to point lines; **physical unit address** ; logical unit address; communication response time; computer networks; Frederick Engineering; performance analyzer module; FELINE protocol analyzer; multidrop lines; line usage; network response times; **software module**

Class Codes: B6210L (Computer communications); C5670 (Network performance); C5470 (Performance evaluation and testing); C7410F (

Communications)

18/5/14 (Item 14 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

04039633 INSPEC Abstract Number: B9201-0100-062, C9201-7250-014

Title: Text Retrieval : Information First. Proceedings of the Institute of Information Scientists 1990 Text Retrieval Conference

Editor(s): Gillman, P.

Publisher: Taylor Graham, London, UK

Publication Date: 1991 Country of Publication: UK 126 pp.

ISBN: 0 947568 47 6

Conference Date: Oct. 1990 Conference Location: London, UK

Language: English Document Type: Conference Proceedings (CP)

Treatment: Practical (P)

Abstract: The following topics were dealt with: end-user integration in text retrieval systems; thesaurus modules in text management software; full-text document retrieval ; computer networks for text retrieval systems; library functions using text retrieval ; government auditing using text management; spelling checkers; hypertext and document image processing.

Subfile: B C

Descriptors: computer networks; database management systems; document image processing; government data processing; indexing ; information retrieval systems; library automation; word processing

Identifiers: end-user integration; text retrieval systems; thesaurus modules; text management software; full-text document retrieval ; computer networks; library functions; government auditing; spelling checkers; hypertext; document image processing

Class Codes: B0100 (General electrical engineering topics); B6210L (Computer communications); C7250 (Information storage and retrieval); C7240 (Information analysis and indexing); C7210L (Library automation); C5620 (Computer networks and techniques); C6160 (Database management systems (DBMS)); C7130 (Public administration)

18/5/15 (Item 15 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03984212 INSPEC Abstract Number: C91065462

Title: The implementation of BASIS at the Imperial Cancer Research Fund

Author(s): Davies, M.

Author Affiliation: Libr. & Inf. Services, Imperial Cancer Res. Fund, London, UK

Journal: Program vol.25, no.3 p.187-206

Publication Date: July 1991 Country of Publication: UK

CODEN: PRGMBD ISSN: 0033-0337

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: A summary is given of the factors influencing the selection and implementation of BASIS (release K) and its library application packages (TechLib/STACS/BILL) in the creation of seven end user databases at the Imperial Cancer Research Fund (ICRF). The Science Citation Index source tapes are used to provide a current-awareness service and an online search service of the latest six months of data. A full-text database of scientific reports, and details of staff publications and staff laboratories is created. The BILL (British Interlibrary Loans) module of

BASIS is used for the large number (12000+p.a.) of interlibrary loans and photocopy requests at ICRF. The emphasis is on local requirements and customisation of the **program modules** for end users rather than a detailed description of their standard features. (5 Refs)

Subfile: C

Descriptors: information **retrieval** systems; information services; library automation; medical computing

Identifiers: BASIS; library application packages; TechLib/STACS/BILL; end user databases; Imperial Cancer Research Fund; Science Citation **Index** source tapes; current-awareness service; online search service; full-text database; scientific reports; staff publications; staff laboratories; BILL; British Interlibrary Loans; photocopy requests; ICRF; local requirements; **program modules**; end users

Class Codes: C7210L (Library automation); C7250 (Information storage and retrieval); C7330 (Biology and medicine)

18/5/16 (Item 16 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03802404 INSPEC Abstract Number: A91016136, B91010022, C91009920

Title: A real time optical neural networks using programmable **LCTV** spatial light modulator

Author(s): Yang Shining; Wang Tianji; Li Yaotang; Zhang Shichao; Fan Shaowu; Wen Huanrong

Author Affiliation: Guangzhou Inst. of Electron. Technol., Acad. Sinica, China

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1230 p.666-8

Publication Date: 1990 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

Conference Title: International Conference on Optoelectronic Science and Engineering '90

Conference Sponsor: China Assoc. Sci. Technol.; Int. Comm. Optics; SPIE; IEEE; et al

Conference Date: 22-25 Aug. 1990 Conference Location: Beijing, China

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: New Developments (N); Theoretical (T); Experimental (X)

Abstract: A new memory model of optical neural networks called the reflexive associative memory is implemented in real-time using programmable liquid crystal television (LCTV). In this model the vectors are stored in a memory matrix in the form of vector pairs. Not only a full vector prestored in neural networks can be recalled from partial information of the vector, but the other vector of the prestored vector pair can also be recalled. (6 Refs)

Subfile: A B C

Descriptors: content- **addressable** storage ; liquid crystal devices; modelling; neural nets; optical information processing; optical modulation; optical storage

Identifiers: memory model; real time optical neural networks; **programmable** LCTV spatial light **modulator**; reflexive associative memory; vector pairs

Class Codes: A4280K (Optical beam modulators); A4230N (Optical storage and retrieval); B4150D (Liquid crystal devices); B4120 (Optical storage and retrieval); B4180 (Optical logic devices and optical computing techniques); C5270 (Optical computing techniques); C1230 (Artificial intelligence); C5320K (Optical storage)

18/5/17 (Item 17 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03653774 INSPEC Abstract Number: B90044089, C90040767

Title: Solid-state thin-film memistor for electronic neural networks

Author(s): Thakoor, S.; Moopenn, A.; Daud, T.; Thakoor, A.P.

Author Affiliation: Center for Space Microelectron. Technol., Jet Propulsion Lab., California Inst. of Technol., Pasadena, CA, USA

Journal: Journal of Applied Physics vol.67, no.6 p.3132-5

Publication Date: 15 March 1990 Country of Publication: USA

CODEN: JAPIAU ISSN: 0021-8979

U.S. Copyright Clearance Center Code: 0021-8979/90/063132-04\$03.00

Language: English Document Type: Journal Paper (JP)

Treatment: Experimental (X)

Abstract: The authors report on a tungsten-oxide-based, nonvolatile, electrically reprogrammable, variable resistance device as an analog synaptic memory connection for electronic neural networks. A voltage controlled, reversible injection of H^{+/} ions in electrochromic thin films of WO₃ is utilized to modulate its resistance. A hygroscopic thin film of Cr₂O₃ is the source of H^{+/} ions. The resistance of the device can be tailored and stabilized over a wide dynamic range (approximately four orders of magnitude), and the **programming** speed is **modulated** by the control voltage. The suitability of such a device in terms of its response speed, reversibility, stability, and cyclability for its use in electronic neural networks is discussed. (10

Refs)

Subfile: B C

Descriptors: analogue storage; content- **addressable storage** ; electrochromic devices; neural nets; thin film transistors; tungsten compounds

Identifiers: thin-film memistor; electronic neural networks; nonvolatile; electrically reprogrammable; variable resistance device; analog synaptic memory connection; voltage controlled; reversible injection; electrochromic thin films; hygroscopic thin film; resistance; programming speed; response speed; reversibility; stability; cyclability; WO₃; Cr₂O₃; H^{+/} ions

Class Codes: B2560Z (Other semiconductor devices); B4150 (Electro-optical devices); C5330 (Analogue storage)

Chemical Indexing:

H el (Elements - 1)

W₃ bin - O₃ bin - O bin - W bin (Elements - 2)

Cr₂O₃ bin - Cr₂ bin - Cr bin - O₃ bin - O bin (Elements - 2)

18/5/18 (Item 18 from file: 2)

DIALOG(R) File 2:INSPEC

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03639653 INSPEC Abstract Number: B90037168, C90040666

Title: Multiple-quantum-well-based spatial light modulators for electro-optical implementation of neural networks

Author(s): Sahai, R.; Bailey, R.B.; Lastufka, C.; Hong, S.C.; Li, W.Q.; Singh, J.; Bhattacharya, P.K.

Author Affiliation: Rockwell Sci. Center, Thousand Oaks, CA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.1151 p.427-34

Publication Date: 1990 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

Conference Title: Optical Information Processing Systems and

Architectures

Conference Sponsor: SPIE
Conference Date: 8-11 Aug. 1989 Conference Location: San Diego, CA,
USA
Language: English Document Type: Conference Paper (PA); Journal Paper
(JP)
Treatment: Applications (A); Experimental (X)
Abstract: The authors describe their work on the development of opto-electronic devices with intrinsic properties conductive to simulating neurons and synaptic interconnections. These devices permit a novel architecture for the optical implementation of Hopfield's neural network model for associative memory applications with the feedback in the optical domain. Eliminating the need for electronic feedback circuits would permit larger networks to be implemented. (14 Refs)
Subfile: B C
Descriptors: content- addressable storage; electro-optical devices; integrated optoelectronics; neural nets; optical information processing; optical interconnections; optical modulation; semiconductor quantum wells
Identifiers: MQW spatial light modulators; neural networks; programmable modulator; electro-optical implementation; opto-electronic devices; synaptic interconnections; Hopfield's neural network model; associative memory
Class Codes: B4150 (Electro-optical devices); B4180 (Optical logic devices and optical computing techniques); B4270 (Integrated optoelectronics); C5270 (Optical computing techniques)

18/5/19 (Item 19 from file: 2)

DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03493659 INSPEC Abstract Number: C89067087

Title: MVSE 51-a small development system for microcomputers of the 8051 series
Author(s): Smolka, J.; Bajbar, J.; Lukovic, T.; Pernecky, M.
Journal: Sdelovaci Technika vol.37, no.4 p.125-7
Publication Date: April 1989 Country of Publication: Czechoslovakia
CODEN: SDTEAM ISSN: 0036-9942
Language: Czech Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: Describes the hardware and software of the MVSE 51 system which is an effective tool for the development and debugging of microcomputer systems. The system is designed for maximum utilisation of the addressing storage space. External memory can be used either for programs or data. User communication is facilitated by means of an alphanumerical terminal with a keyboard (Videoton 52 100, SM 1601, SM 7202). The software of the MVSE 51 system consists of three independent parts-the basic monitor; extended software based on a minimonitor; and interactive software for controlling programming modules. (5 Refs)

Subfile: C
Descriptors: computer architecture; development systems; supervisory programs
Identifiers: 8051 series; microcomputer systems; alphanumerical terminal; Videoton 52 100; SM 1601; SM 7202; MVSE 51 system; monitor; minimonitor; software
Class Codes: C5250 (Microcomputer techniques); C6150J (Operating systems); C5220 (Computer architecture)

18/5/20 (Item 20 from file: 2)

DIALOG(R)File 2:INSPEC

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03442051 INSPEC Abstract Number: B89057169, C89057589

Title: Technology overview: optical disk based document management systems (OD/DMS)

Author(s): Walter, G.

Author Affiliation: Rothchild Consultants Inc., San Francisco, CA, USA

Journal: International Journal of Micrographics & Video Technology
vol.7, no.1 p.15-24

Publication Date: 1989 Country of Publication: UK

CODEN: IJMTDZ ISSN: 0743-9636

U.S. Copyright Clearance Center Code: 0743-9636/89/\$3.00+0.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The management of documents, that have a data content that is expressed in graphic symbolism, can be classified into three basic tasks: storage and **retrieval** of the documents, maintenance (revision) of the documents, dissemination (distribution) of the documents. In an OD/DMS, the dissemination of the image data requires special considerations in the choice of the communication channels. The systems that are offered on the market can be divided into two basic categories: data private branch exchange (data PBX) systems and local area network (LAN) systems. The author discusses the differences between these systems and goes on to look at the OD/DMS environment, i.e. **indexing**, document address assignment, task-specific **software modules**, **index** and control **program** storage, workstations and printers. OD/DMS architectures are also considered. (0 Refs)

Subfile: B C

Descriptors: **indexing** ; information **retrieval** systems; local area networks; microcomputer applications; optical disc storage; private telephone exchanges

Identifiers: optical disk based document management systems; data content ; graphic symbolism; storage; **retrieval** ; maintenance; dissemination; image data; communication channels; data private branch exchange; data PBX; local area network; LAN; OD/DMS environment; **indexing** ; document address assignment; task-specific **software modules** ; control program storage; workstations; printers; OD/DMS architectures

Class Codes: B6210L (Computer communications); B6230 (Switching centres and equipment); C7250L (Non-bibliographic systems); C5620 (Computer networks and techniques); C7240 (Information analysis and indexing); C5320K (Optical storage)

18/5/21 (Item 21 from file: 2)

DIALOG(R)File 2:INSPEC

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03350118 INSPEC Abstract Number: B89024149, C89026400

Title: Implementation of neural networks using quantum well based excitonic devices-device requirement studies

Author(s): Singh, J.; Songched Hong; Bhattacharya, P.K.; Sahai, R.

Author Affiliation: Dept. of Electr. Eng. & Comput. Sci., Michigan Univ., Ann Arbor, MI, USA

Conference Title: IEEE International Conference on Neural Networks (IEEE Cat. No.88CH2632-8) p.411-19 vol.2

Publisher: IEEE, New York, NY, USA

Publication Date: 1988 Country of Publication: USA 2 vol. (699+651) pp.

Conference Sponsor: IEEE

Conference Date: 24-27 July 1988 Conference Location: San Diego, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The authors examine experimentally and theoretically two devices based on III-V technology, which are critical in the implementation of the Hopfield model as well as other neural type networks for associative memories. The devices are based on Stark effect of excitonic transitions. P-i (multiquantum wells)-n structures using GaAs/AlGaAs provide a controller-modulator device which has the integrating-thresholding properties required of neurons. The p-i-n structures also provide **programmable modulators** which can serve as a synaptic mask. Using Monte Carlo techniques, the authors examine an all-optical architecture to implement the Hopfield network. No external feedback-thresholding circuitry is required in this implementation due to special design of the controller-modulator device. Speed and stability issues of this architecture are also addressed. The computer simulation results provide insight into how the controller-modulator device should be improved for better network implementation. The basic technology now exists for such an implementation. (21 Refs)

Subfile: B C

Descriptors: aluminium compounds; content- **addressable storage** ; electro-optical devices; excitons; gallium arsenide; III-V semiconductors; Monte Carlo methods; neural nets; optical information processing; optical storage; quantum optics; semiconductor quantum wells; Stark effect

Identifiers: Hopfield-type networks; neural networks; quantum well based excitonic devices; III-V technology; associative memories; Stark effect; excitonic transitions; multiquantum wells; controller-modulator device; integrating-thresholding properties; p-i-n structures; **programmable modulators** ; synaptic mask; Monte Carlo techniques; all-optical architecture; stability; architecture; GaAs-AlGaAs

Class Codes: B4180 (Optical logic devices and optical computing techniques); B0240G (Monte Carlo methods); B4120 (Optical storage and retrieval); B2530B (Semiconductor junctions); B4150 (Electro-optical devices); C5270 (Optical computing techniques); C1230 (Artificial intelligence); C1140G (Monte Carlo methods)

Chemical Indexing:

GaAs-AlGaAs int - AlGaAs int - GaAs int - Al int - As int - Ga int - AlGaAs ss - Al ss - As ss - Ga ss - GaAs bin - As bin - Ga bin (Elements - 2,3,3)

18/5/22 (Item 22 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03342713 INSPEC Abstract Number: C89023938

Title: **Bicameral neural network where information can be indexed**

Author(s): Kak, S.C.; Stinson, M.C.

Author Affiliation: Dept. of Electr. & Comput. Eng., Louisiana State Univ., Baton Rouge, LA, USA

Journal: Electronics Letters vol.25, no.3 p.203-5

Publication Date: 2 Feb. 1989 Country of Publication: UK

CODEN: ELLEAK ISSN: 0013-5194

U.S. Copyright Clearance Center Code: 0013-5194/89/\$3.00+0.00

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: A new neural network model that uses an asynchronous controller in the feedback loop is described. The proposed asynchronous controller together with the basic neural net forms a bicameral network that can be **programmed** in various ways to exploit global and local characteristics of

stored memory. It is shown that memories can be **indexed** and ordered. The central result of the letter is that a memory can be **retrieved** based on its indexing key alone. (5 Refs)

Subfile: C

Descriptors: content- **addressable storage** ; neural nets

Identifiers: global characteristics; neural network model; feedback loop; asynchronous controller; bicameral network; local characteristics; stored memory; indexing key alone

Class Codes: C1230 (Artificial intelligence)

18/5/23 (Item 23 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03268795 INSPEC Abstract Number: B89002754, C89002518

Title: Application of holographic associative memories to hybrid binary adder

Author(s): Yu, F.T.S.; Chenhua Zhang; Yong Jin; Jutamulia, S.

Author Affiliation: Dept. of Electr. Eng., Pennsylvania State Univ., University Park, PA, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering vol.883 p.254-9

Publication Date: 1988 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

Conference Title: Holographic Optics: Design and Applications

Conference Sponsor: SPIE

Conference Date: 13-14 Jan. 1988 Conference Location: Los Angeles, CA, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Applications (A); Experimental (X)

Abstract: The application of holographic associative memories to binary addition based on symbolic substitution is described. Experimental results of parallel half-addition are presented. The use of a liquid crystal television (LCTV) as a computer- **programmable** spatial light **modulator** in the hybrid binary adder is also discussed. (10 Refs)

Subfile: B C

Descriptors: content- **addressable storage** ; holographic storage; liquid crystal devices; optical information processing; optical modulation

Identifiers: holographic associative memories; hybrid binary adder; symbolic substitution; parallel half-addition; liquid crystal television; computer- **programmable** spatial light **modulator**

Class Codes: B4120 (Optical storage and retrieval); B4180 (Optical logic devices and optical computing techniques); B4150D (Liquid crystal devices); C5320K (Optical storage); C5270 (Optical computing techniques)

18/5/24 (Item 24 from file: 2)

DIALOG(R) File 2:INSPEC

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03128902 INSPEC Abstract Number: C88028766

Title: WOPPLOT 86. Parallel Processing: Logic, Organization, and Technology. Proceedings of a Workshop

Editor(s): Becker, J.D.; Eisele, I.

Publisher: Springer-Verlag, Berlin, West Germany

Publication Date: 1987 Country of Publication: West Germany vi+226

pp.

ISBN: 3 540 18022 2

Conference Date: 2-4 July 1986 Conference Location: Neubiberg, West Germany

Language: English Document Type: Conference Proceedings (CP)

Treatment: Theoretical (T)

Abstract: The following topics were dealt with: technological developments for 3D circuitry; molecular electronics; planning dynamic trajectory in discrete phase space; parallel simulations of physical phenomena; pyramidal architectures for image processing; MIMD algorithms; self-organizing hierarchical modular systems; neuro linguistic programming for analysing mental representation; nonmonotonic reasoning; complex notion of time; structure and parallel processing; adaptive associative systems for VLSI; pattern storage and associative memory in quasi neural networks; neural nets and cellular automata; parallel algorithms and the classification of problems by their complexity. Abstracts of individual papers can be found under the relevant classification codes in this or other issues.

Subfile: C

Descriptors: algorithm theory; computerised picture processing; content-addressable storage; neural nets; parallel processing; phase space methods

Identifiers: 3D circuitry; molecular electronics; planning dynamic trajectory; discrete phase space; parallel simulations; physical phenomena; pyramidal architectures; image processing; MIMD algorithms; self-organizing hierarchical modular systems; neuro linguistic programming; mental representation; nonmonotonic reasoning; time; parallel processing; adaptive associative systems; VLSI; pattern storage; associative memory; quasi neural networks; neural nets; cellular automata; parallel algorithms

Class Codes: C1230 (Artificial intelligence); C4200 (Computer theory); C5260B (Computer vision and picture processing); C5310 (Storage system design)

18/5/25 (Item 25 from file: 2)

DIALOG(R) File 2:INSPEC

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03080508 INSPEC Abstract Number: B88020462, C88018310

Title: Optoelectronic analogs of self-programming neural nets: architecture and methodologies for implementing fast stochastic learning by simulated annealing

Author(s): Farhat, N.H.

Author Affiliation: Dept. of Electr. Eng., Pennsylvania Univ., Philadelphia, PA, USA

Journal: Applied Optics vol.26, no.23 p.5093-103

Publication Date: 1 Dec. 1987 Country of Publication: USA

CODEN: APOPAI ISSN: 0003-6935

U.S. Copyright Clearance Center Code: 0003-6935/87/235093-11\$02.00/0

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Self-organization and learning is a distinctive feature of neural nets and processors that sets them apart from conventional approaches to signal processing. It leads to self-programmability which alleviates the problem of programming complexity in artificial neural nets. In this paper architectures for partitioning an optoelectronic analog of a neural net into distinct layers with prescribed interconnectivity pattern to enable stochastic learning by simulated annealing in the context of a Boltzmann machine are presented. Stochastic learning is of interest because of its relevance to the role of noise in biological neural nets. Practical considerations and methodologies for appreciably accelerating stochastic learning in such a multilayered net are described. These include the use of parallel optical computing of the global energy of the net, the use of fast

nonvolatile **programmable** spatial light **modulators** to realize fast plasticity, optical generation of random number arrays, and an adaptive noisy thresholding scheme that also makes stochastic learning more biologically plausible. The findings reported predict optoelectronic chips that can be used in the realization of optical learning machines. (49 Refs)

Subfile: B C

Descriptors: content- **addressable** **storage** ; learning systems; neural nets; optical information processing; parallel architectures

Identifiers: optoelectronic analogs; self organisation; associative memory; self-programming neural nets; architecture; methodologies; fast stochastic learning; simulated annealing; signal processing; programming complexity; artificial neural nets; interconnectivity pattern; Boltzmann machine; noise; biological neural nets; multilayered net; parallel optical computing; global energy; fast nonvolatile **programmable** spatial light **modulators** ; fast plasticity; optical generation; random number arrays; adaptive noisy thresholding scheme; optical learning machines

Class Codes: B4120 (Optical storage and retrieval); B4180 (Optical logic devices and optical computing techniques); C1230 (Artificial intelligence); C5220 (Computer architecture); C5270 (Optical computing techniques); C5320K (Optical storage); C5330 (Analogue storage)

18/5/26 (Item 26 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

03004192 INSPEC Abstract Number: C87066839

Title: **Information retrieval for INSPEC database**

Author(s): Kapaleaswaran, T.N.

Author Affiliation: Nat. Centre for Sci. Inf., Indian Inst. of Sci., Bangalore, India

Journal: Library Science with a Slant to Documentation vol.24, no.1 p.19-28

Publication Date: March 1987 Country of Publication: India

CODEN: LSSDA8

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: This paper is concerned with the development for **retrieving** information from INSPEC magnetic tapes produced by the Institution of Electrical Engineers, UK. The **software** developed has different **modules** . They are keyword extraction, **indexed** sequential file creation, searching, formatting and printing. The keyword on which searching is made is subject heading. It takes around two to three days to process one INSPEC tape for two hundred user profiles. (2 Refs)

Subfile: C

Descriptors: bibliographic systems; information **retrieval** ; information services

Identifiers: information **retrieval** ; IEE; information services; bibliographic systems; INSPEC; keyword extraction; **indexed** sequential file; formatting; subject heading

Class Codes: C7250C (Bibliographic systems)

18/5/27 (Item 27 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02846537 INSPEC Abstract Number: C87023959

Title: **Modula-2/VRS**

Author(s): Dotzel, G.
Author Affiliation: ModulaWare, GmbH, Erlangen, West Germany
Journal: DEC Professional vol.5, no.12 p.52, 54, 56, 58
Publication Date: Dec. 1986 Country of Publication: USA
CODEN: DECPDJ ISSN: 0744-9216
Language: English Document Type: Journal Paper (JP)
Treatment: Practical (P)
Abstract: The **programming** language **Modula** -2 is available for the PDP-11 running under RT-11. This compiler directly generates native code, supporting FIS and FPU (floating instruction set and floating point unit) hardware options. The author discusses how to make the most of this programming language. He looks at the VRS real-memory system, translation of virtual to **physical address** and the VM handler. (0 Refs)
Subfile: C
Descriptors: Modula; operating systems (computers); program compilers; programming
Identifiers: Modula-2; PDP-11; RT-11; compiler; FIS; FPU; floating instruction set; floating point unit; VRS; real-memory system; **physical address**; VM handler
Class Codes: C6140D (High level languages); C6150C (Compilers, interpreters and other processors); C6150J (Operating systems)

18/5/28 (Item 28 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02792068 INSPEC Abstract Number: C87007087
Title: Lotus/Intel/Microsoft expanded memory
Author(s): Duncan, R.
Author Affiliation: Lab. Microsyst. Inc., Marina del Rey, CA, USA
Journal: BYTE vol.11, no.11 p.168-9, 172-9
Publication Date: 1986 Country of Publication: USA
CODEN: BYTEDJ ISSN: 0360-5280
Language: English Document Type: Journal Paper (JP)
Treatment: Practical (P); Product Review (R)
Abstract: The Lotus/Intel/Microsoft Expanded Memory Specification (EMS) 3.2 is a functional definition of a bank-switched memory-expansion subsystem made up of hardware expansion modules and a user-installable, resident driver **program** specific for those **modules**. Bank switching is a technique whereby the central processor can make one of many logical memory pages available for access in a window at a predetermined **physical address**. This version of bank-switched memory provides a uniform software interface to all applications regardless of hardware differences. (5 Refs)
Subfile: C
Descriptors: microcomputer applications; software packages; software portability; virtual storage
Identifiers: Lotus/Intel/Microsoft Expanded Memory Specification; bank-switched memory-expansion subsystem; hardware expansion modules; user-installable, resident driver program; logical memory pages; software interface
Class Codes: C6120 (File organisation)

18/5/29 (Item 29 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02604957 INSPEC Abstract Number: C86013366
Title: A fuzzy associative memory module and its application to signal

processing

Author(s): Nodes, T.A.; Smith, J.L.; Hacht-Nielsen, R.
Author Affiliation: TRW, San Diego, CA, USA
Conference Title: ICASSP 85. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing (Cat. No. 85CH2118-8) p.1511-14 vol.4
Publisher: IEEE, New York, NY, USA
Publication Date: 1985 Country of Publication: USA 4 vol. 1861 pp.
U.S. Copyright Clearance Center Code: CH2118-8/85/0000-1511\$01.00
Conference Sponsor: IEEE
Conference Date: 26-29 March 1985 Conference Location: Tampa, FL, USA
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: A fuzzy associative memory (FAM) is a device in which data in memory are located and manipulated on the basis of the values of the data themselves. This processing is based on ranges of values (fuzzy), not specific points. This makes the device more applicable to real-world problems. A FAM currently under development is described. It is intended as a high-speed association coprocessor for signal and data processors. In addition, the FAM's potential for supplying practical solutions to previously difficult multivariate detection and estimation problems is investigated and some analytic tools are presented. (9 Refs)
Subfile: C
Descriptors: content- addressable storage ; signal processing
Identifiers: fuzzy associative memory module; signal processing; FAM; high-speed association coprocessor; data processors; multivariate detection ; estimation; analytic tools
Class Codes: C5260 (Digital signal processing); C5320 (Digital storage)

18/5/30 (Item 30 from file: 2)

DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02355524 INSPEC Abstract Number: C85003446
Title: A message-based information handling system
Author(s): Hollaar, L.; Robison, S.; Zeleznik, M.
Author Affiliation: Dept. of Comput. Sci., Utah Univ., Salt Lake City, UT, USA
Conference Title: Digest of Papers COMPCON Spring '84. Twenty-Eighth IEEE Computer Society International Conference (IEEE Cat. No. 84CH2017-2) p. 164-6
Publisher: IEEE Comput. Soc. Press, Silver Spring, MD, USA
Publication Date: 1984 Country of Publication: USA xxvi+522 pp.
ISBN: 0 8186 0525 1
U.S. Copyright Clearance Center Code: CH2017-2/84/0000-0164\$01.00
Conference Sponsor: IEEE
Conference Date: 27 Feb.-1 March 1984 Conference Location: San Francisco, CA, USA
Language: English Document Type: Conference Paper (PA)
Treatment: Practical (P)
Abstract: The Utah Text **Retrieval** Project is capable of handling databases ranging in size from electronic file cabinets to large information utilities; it offers good response time, a straightforward but powerful user interface, and reasonable cost. **Software modules** can be replaced by special-purpose backend processors to improve the system performance. A message-based approach allows a number of significant advantages over existing **retrieval** systems. Processing can be distributed among a number of conventional or special-purpose processors. The **retrieval** system can function as a backend system driven by a number of workstations, since the design supports multiple host processors. Modules

performing key system tasks, such as **index** manipulation or searching, can be altered to perform more efficiently in a particular application or be replaced by backend hardware systems. A prototype of the system is currently operational on a network of Apollo workstations. (3 Refs)

Subfile: C

Descriptors: information **retrieval** ; information **retrieval** systems

Identifiers: message-based information handling system; Utah Text

Retrieval Project; databases; electronic file cabinets; information utilities; response time; user interface; cost; backend processors; system performance; **retrieval** systems; special-purpose processors; backend system; workstations; multiple host processors; **index** manipulation; searching; backend hardware systems; Apollo workstations

Class Codes: C7250 (Information storage and retrieval)

18/5/31 (Item 31 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

02221227 INSPEC Abstract Number: C84018692

Title: MINDOK-a microcomputer-based text-acquisition and information retrieval system

Author(s): Kudeck, J.; Schneider, W.; Sager, W.; Schmucker, P.

Author Affiliation: Inst. fur Medizinische Informatik, Univ. of Giessen, Giessen, West Germany

Conference Title: Application of Mini- and Micro-Computers in Information, Documentation and Libraries. Proceedings of the International Conference p.71-8

Editor(s): Keren, C.; Perlmutter, L.

Publisher: North-Holland, Amsterdam, Netherlands

Publication Date: 1983 Country of Publication: Netherlands xix+801 pp.

ISBN: 0 444 86767 8

Conference Date: 13-18 March 1983 Conference Location: Tel-Aviv, Israel

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The microcomputer-based **modular** **software** package MINDOK was developed to support the application of documentation systems to routinely typed documents like reports, letters, etc., to make available the contained information for **retrieval** and research. It provides functions for the generation of input and output forms, word processing and error checking in data and free-text. Documents have to be typed only once. They can be reformatted and used for different purposes. Automatic **indexing** as well as storage and **retrieval** operations are supported too. **Retrieval** is possible in locally stored inverted files, in the MINDOK data base on minicomputers and mainframe documentation systems. By these features MINDOK supports comprehensively the complete document generation, analysis and **retrieval** process. (4 Refs)

Subfile: C

Descriptors: **indexing** ; information analysis; information **retrieval** systems; word processing

Identifiers: information analysis; STAIRS; MINDOK; microcomputer-based text-acquisition; information **retrieval** system; **modular** **software** package; documentation systems; reports; letters; word processing; error checking; **indexing** ; storage; **retrieval** ; inverted files; data base; minicomputers; mainframe

Class Codes: C7210 (Information services and centres); C7240 (Information analysis and indexing); C7250 (Information storage and retrieval)

18/5/32 (Item 32 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

01273066 INSPEC Abstract Number: C78031483

Title: BINSYS-a personal information retrieval system

Author(s): Barker, P.G.

Author Affiliation: Dept. of Computing, Univ. of Durham, Durham, UK

Journal: Journal of Informatics vol.2, no.1 p.34-51

Publication Date: April 1978 Country of Publication: UK

CODEN: JOIND9 ISSN: 0309-5657

Conference Title: British Computer Society Information Retrieval Specialist Group Research Colloquium

Conference Date: 3-4 April 1978 Conference Location: Leeds, UK

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P)

Abstract: This paper is concerned with the design and implementation of an information system, called BINSYS, for use by the non-expert and which is applicable within a wide range of subject areas. Like most other information systems, BINSYS offers its user facilities for data capture or accession of items, classification through the assignment of descriptor codes, retrieval via conventional permuted indexes and online searching using keywords in conjunction with a semantic network, updating of the stored information and indexes as a result of the acquisition of new knowledge, reclassification or the elimination, of material that is no longer of value, the capability to handle multimedia materials, simplicity of operation since there are relatively few program modules and transportability of data and software. BINSYS contains a data dictionary that enables logical descriptor codes to be mapped onto physical storage. It is through the data dictionary that mobility and ease of transportation of data is achieved. It also offers some degree of privacy of information through the use of enciphering techniques applied to its entries. The basic structure of the system is hierarchical although both network and relational components are present as discrete components and some network interactions may be formulated within the overall system. (5 Refs)

Subfile: C

Descriptors: information retrieval systems

Identifiers: BINSYS; personal information retrieval system; design; implementation; data capture; accession of items; classification; descriptor codes; permuted indexes; online searching; semantic network; updating; multimedia materials; transportability; nonexpert user

Class Codes: C7250 (Information storage and retrieval)

18/5/33 (Item 33 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00898196 INSPEC Abstract Number: C76011589

Title: Design and development of an interactive information retrieval system for bibliographic and legislative data

Author(s): Scott, F.; Power, D.L.; Fitzgerald, M.

Conference Title: Computer Science Conference /sup '75. (Abstracts only received) p.18

Publisher: ACM, New York, NY, USA

Publication Date: 1975 Country of Publication: USA xxiv+63 pp.

Conference Sponsor: ACM

Conference Date: 18-20 Feb. 1975 Conference Location: Washington, DC, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Practical (P)

Abstract: SCORPIO (Subject Content Oriented **Retriever** for Processing Information On-line) is a terminal independent, interactive information system, within the DIALOG/RECON family of **retrieval** systems, under development at the Library of Congress. From over 40 terminals located in the Library and the Congress, staff members use SCORPIO to **retrieve** both legislative and bibliographic information from Library data bases with an average response time of less than five seconds. The implementation philosophy allows **program modules** that provide new capabilities to be implemented rapidly while minimizing development costs and maximizing customer satisfaction.

Subfile: C

Descriptors: information **retrieval** systems

Identifiers: interactive information **retrieval** system; bibliographic; legislative data; Subject Content Oriented **Retriever**; terminal independent, interactive information system; Library data bases; SCORPIO **retrieval** system; DIALOG/RECON **retrieval** systems; **index** term **retrieval**

Class Codes: C7250 (Information storage and retrieval)

18/5/34 (Item 34 from file: 2)

DIALOG(R)File 2:INSPEC

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00701048 INSPEC Abstract Number: C74024467

Title: Benefits of multi-terminal fast automatic random access to integrated computer and microfilm information

Author(s): Merwin, R.L.

Author Affiliation: Dynamic Information Systems, Inc., Burnsville, MN, USA

Conference Title: 36th Annual Meeting of the American Society for Information Science. vol.X p.149-50

Editor(s): Waldron, H.J.; Long, F.R.

Publisher: American Soc. Information Sci, Washington, DC, USA

Publication Date: 1974 Country of Publication: USA xii + 247 pp.

ISBN: 0 87715 410 4

Conference Date: 21-25 Oct. 1973 Conference Location: Los Angeles, CA, USA

Language: English Document Type: Conference Paper (PA)

Treatment: Applications (A); Economic aspects (E); Practical (P)

Abstract: Discusses the cost effectiveness of the combination of multiple CRT terminals with graphics buffers; central automatic microfilm selector and video generator **modules** and a computer **program** to search, **index** and update information. The author concludes that in many cases the cost is effective. (0 Refs)

Subfile: C

Descriptors: computer graphics; information **retrieval** system evaluation ; microforms

Identifiers: benefits; fast automatic random access; integrated computer and microfilm information; cost effectiveness; multiple CRT terminals; graphics buffers; central automatic microfilm selector; video generator; search; **index** ; update

Class Codes: C5540 (Terminals and graphic displays); C7250 (Information storage and retrieval)

18/5/35 (Item 35 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00629327 INSPEC Abstract Number: C74011234

Title: POLYDOC/COINDOC-a system for internal storage, retrieval and dissemination of information

Author(s): Krog, H.K.

Conference Title: Proceedings of the 5th Triennial Meeting of IATUL on Computer-Based Services: Practical Experience in European Libraries p. 37-9

Editor(s): Lincoln, C.M.

Publisher: Internat. Assoc. Technol. Univ, Loughborough, Leics., UK

Publication Date: 1973 Country of Publication: UK iii+99 pp.

ISBN: 0 9501411 1 9

Conference Sponsor: Internat. Assoc. Technol. Univ. Libraries

Conference Date: 6-8 June 1973 Conference Location: Copenhagen, Denmark

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: COINDOC is a tool in the process of **indexing** storing, **retrieving** and distributing information from documents, and it can help solve internal information problems. POLYDOC/COINDOC is a system developed by Norwegian Centre for Informatics, NSI, as a pack of **modular** EDP **programs** ready for use. (0 Refs)

Subfile: C

Descriptors: **indexing** ; information dissemination; information **retrieval** systems; information services

Identifiers: POLYDOC/COINDOC; system; internal storage; **retrieval** ; dissemination; information; **indexing**

Class Codes: C7210 (Information services and centres); C7220 (Generation, dissemination, and use of information); C7240 (Information analysis and indexing); C7250 (Information storage and retrieval)

18/5/36 (Item 36 from file: 2)

DIALOG(R) File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00385472 INSPEC Abstract Number: C72011790

Title: Experiences of IIT research institute in operating a computerized retrieval system for searching a variety of data bases

Author(s): Williams, M.E.

Author Affiliation: IIT, Chicago, IL, USA

Journal: Information Storage and Retrieval vol.8, no.2 p.57-75

Publication Date: April 1972 Country of Publication: UK

CODEN: IFSRAS ISSN: 0020-0271

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The computer Search Center (CSC) at IIT Research Institute (IITRI) provides information from computer-readable data bases to users in industry, government and universities. The centre was designed to meet user needs by providing a variety of services from multiple data bases with minimal restrictions and a high degree of flexibility. A new modular machine-independent PL/1 software system was developed for handling virtually any bibliographic-type data base. CSC programs have run at nine different computer facilities with different hardware, computer models, versions of OS, peripherals, and releases of the PL/1 compiler. All data bases are converted by preprocessors to a standard IITRI format which employs a directory and character string type of file structure. User

oriented profile features include: full free form Boolean logic with any degree of nesting; search terms may be any data element on a data base; search terms may be single words, multi-word terms, phrases, or term fragments; full truncation capabilities; optional sort by author, citation number, or weight; and optional printing of output on 5*8 cards, multilith masters, paper, or tape. User aids were developed for each data base to assist in profile development and monitoring. They include: search manuals, truncation guides, term frequency list and KLIC **indexes** . (5 Refs)

Subfile: C

Descriptors: computer software; **indexing** ; information **retrieval** systems

Identifiers: IIT research institute; computerized **retrieval** system; searching; data bases; flexibility; directory; character string; file structure; user oriented profile features; full free form Boolean logic; nesting; search terms; full truncation; optional sort; author; citation number; weight; search manuals; truncation guides; term frequency list; computer readable data base; **modular** machine independent **software** system; PL/1; standard format; KLIC **index**

Class Codes: C7250 (Information storage and retrieval)

18/5/37 (Item 37 from file: 2)

DIALOG(R)File 2:INSPEC

(c) 2004 Institution of Electrical Engineers. All rts. reserv.

00323279 INSPEC Abstract Number: C71023847

Title: An information organizer for coordinating modular programs

Author(s): Hatfield, F.J.

University: Univ. Illinois, Urbana, IL, USA

Dissertation Date: 1970

Country of Publication: USA 170 pp.

Availability: Univ. Microfilms, Ann Arbor, MI, USA Order No. 71-14785

Language: English Document Type: Dissertation (DS)

Treatment: Practical (P)

Abstract: What is needed is a standard, self-documenting data structure suitable for input and output by a wide range of engineering programs. The information organizer provides such a structure, together with variable, arrays and subroutines for manipulating the structure. The structure is conceptually a set of hierarchically nested tables. A row-column intersection of a table may contain either a word of data or a nested table. Associated with each column of a table, and therefore with the data or tables nested into that column, is an alphanumeric label. The column labels, which reside in secondary storage with the data, serve both as a data directory and as mnemonic documentation of the structure. The information organizer provides facilities for creating and deleting rows and columns, for sorting and **indexing** the rows of a table, for addressing columns by label, and for addressing rows by either value or position. The frequency of relatively slow **retrievals** of secondary storage records is minimized by retaining in primary storage previously **retrieved** records in anticipation of future needs according to a strategy based on the number and currency of past accesses of each record.

Subfile: C

Descriptors: data structures

Identifiers: information organiser; self documenting data structure; coordinating **modular** **programs** ; hierarchically nested tables

Class Codes: C6120 (File organisation)

18/5/38 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01796004 ORDER NO: AADAA-I9926678

**FORMALIZATION OF STORAGE CONSIDERATIONS IN SOFTWARE DESIGN (MEMORY,
MODULAR REASONING)**

Author: ANKIREDDIPALLY, LAKSHMINARASIMHA REDDY

Degree: PH.D.

Year: 1999

Corporate Source/Institution: WEST VIRGINIA UNIVERSITY (0256)

Chair: MURALI SITARAMAN

Source: VOLUME 60/06-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2776. 110 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

One of the technical impediments for the widespread adoption of the formal methods is an inability to **address storage** -related concerns such as "out of memory" errors. The focus of this dissertation is on formal specification and modular reasoning of storage-related aspects of practical components and systems. In particular, this thesis tries to address the following fundamental storage-related questions for practical component-based software development (1) Is it possible to reason statically and in a modular fashion that the system would not run "out of memory"? (2) Is it possible for the reasoning system to be modular, yet sufficiently precise with respect to storage constraints? (3) Is it possible to have a formally specified storage management mechanism that is predictable and efficient, yet allows effective storage utilization?

The main contribution of this research work is a formal and modular framework for storage specification and reasoning. A memory management mechanism that is predictable and efficient is also a part of this dissertation.

18/5/39 (Item 2 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01170111 ORDER NO: AAD91-22670

**THE DESIGN AND IMPLEMENTATION OF A CT/MR PICTURE ARCHIVING AND
COMMUNICATION SYSTEM APPLIED TO NEURORADIOLOGY**

Author: LOU, SHYH-LIANG

Degree: PH.D.

Year: 1991

Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, LOS ANGELES (0031)

Chair: H. K. HUANG

Source: VOLUME 52/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1383. 185 PAGES

Descriptors: HEALTH SCIENCES, RADIOLOGY; BIOPHYSICS, MEDICAL

Descriptor Codes: 0574; 0760

An increasing number of digital images are being generated by radiology departments. The digital imaging modalities are distributed over geographically separate hospital buildings and, therefore, the management of multi-modality images for a patient is not easy. This dissertation presents the design and implementation of a picture archiving and communication system (PACS) that can provide fast access to CT and MR images for neuroradiology applications. The course of this dissertation proceeded in four steps: (1) research of the film management operation in the neuroradiology division, (2) integration of hardware components, (3)

integration of **software modules** , (4) clinical evaluation.

The fundamental tasks of the PACS system are modularized into four subsystems (image acquisition, management, communication and display). An Ethernet digital communication network serves the task of data transportation between computer systems within the PACS. Image data is automatically acquired from three CT and three MR scanners by four SUN minicomputers. The acquired images are managed by a SUN server computer and are stored on magnetic disks for fast access and on an automated optical disk library for long term archival. A SUN-PIXAR based workstation with four 1280 x 1024 line monitors is used for image display.

A communication software based upon TCP/IP is implemented to transfer image data over Ethernet. Patient demographic information and associated images are processed by database management processes. The database management include database **index** file maintenance, image archival, **retrieval** , distribution, and deletion. Images are fully replicated in the display workstation. In the workstation, a mouse-and-menu interface allows users to display and manipulate images.

Since February 1990, over 10,000 digital images (37 Gbytes) have been archived, and over 1,600 viewing sessions have been conducted using the display workstation. On average, 41.8 and 8.6 minutes are required to deliver one CT and one MR image study, respectively, from the image scanner to the display workstation. To **retrieve** an archived image study for viewing, 2.4 and 1.04 minutes are needed for one CT study and for one MR study, respectively. Survey responses from ten radiologists evaluating eight workstation operations express overall system acceptance.

18/5/40 (Item 1 from file: 233)
DIALOG(R) File 233:Internet & Personal Comp. Abs.
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00369540 94PI12-204

Ending the paper chase

Poor, Alfred

PC Magazine , December 20, 1994 , v13 n22 p39, 1 Page(s)

ISSN: 0888-8507

Company Name: Compulink Management

Product Name: LaserFiche

Languages: English

Document Type: Software Review

Grade (of Product Reviewed): B

Hardware/Software Compatibility: IBM PC Compatible; Microsoft Windows

Geographic Location: United States

Presents a favorable review of LaserFiche (\$495), a document management program from CompuLink Management (310). The **program** provides an OCR **module** and provides a database in which to store documents. It is Windows-based and available in several versions, including a standalone version and a client-server version for NetWare. It can scan multipage documents and store images in its database. It supports the use of keywords for categories to aid in document **retrieval** and its search engine supports ``fuzzy'' searches. The program allows users to **index** text so they can search the contents of a document. Upcoming versions of the program are expected to support gray-scale and color images and provide import and export capability for Microsoft Word for Windows and WordPerfect for Windows document files. Includes one screen display. (djd)

Descriptors: Document Management System; Scanner; Software Review; Window Software; Optical Character Recognition

Identifiers: LaserFiche; Compulink Management

18/5/41 (Item 2 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
(c) 2003 EBSCO Pub. All rts. reserv.

00262959 91EB12-004
CDS/ISIS -- Software for information storage and retrieval tested, evaluated and compared*; Part II -- Classical retrieval systems
Sieverts, Eric; Hofstede, Marten; Haak, Philip H; Nieuwenhuyzen, Paul
The Electronic Library , December 1, 1991 , v9 n6 p307-308, 2 Page(s)
ISSN: 0264-0473
Company Name: UNESCO
Product Name: CDS/ISIS
Languages: English
Document Type: Software Review
Grade (of Product Reviewed): C
Geographic Location: United States
Presents a mixed review of CDS/ISIS 2.3 (L0), an information **retrieval** and storage program developed by UNESCO of Paris, France. Runs on DOS machines with 512KB of internal and 400KB of external memory. Says CDS/ISIS features password protection, comprehensive search facilities, help screens, error messages, and excellent documentation. Also says the program is powerful and flexible, allows changing the language of menus, allows **programming** of additional **modules** in Pascal, and has a simple field structure; but it is impossible to use without reading the manual, does not check for enough disk space, and **indexing** is slow. (tbc)
Descriptors: Information **Retrieval** ; Information Storage; Software Review; Utility Program
Identifiers: CDS/ISIS; UNESCO

18/5/42 (Item 3 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.
(c) 2003 EBSCO Pub. All rts. reserv.

00240823 91LK05-019
DialogLink simplifies Dialog
Banks, Michael
LINK-UP , May 1, 1991 , v8 n3 p22-23, 2 Pages
ISSN: 0073-9988
Languages: English
Document Type: Software Review
Grade (of Product Reviewed): B
Hardware/Software Compatibility: IBM PC; IBM PC Compatible
Geographic Location: United States
Presents a favorable review of DialogLink (\$99), a front-end program offered by Dialog. Runs on IBM PCs and compatibles with at least 384K of RAM and any monochrome, Hercules, CGA, EGA, or VGA display. Says that the **program** consists of two **modules** , Communications Manager (the main program) and Account Manager (an add-on module that tracks online costs); it is especially tailored to using Dialog's complex array of services; it can be used with Knowledge **Index** and Dialog Classmate, two specialized subsets of Dialog; and the Communications Manager handles autologon chores and a variety of other functions. (jb)
Descriptors: User Interface; Telecommunications; Information **Retrieval** ; Software Review
Identifiers: DialogLink; Dialog

18/5/43 (Item 4 from file: 233)
DIALOG(R)File 233:Internet & Personal Comp. Abs.

(c) 2003 EBSCO Pub. All rts. reserv.

00172961 88SC07-006

Word Cruncher 4.22

Welsch, Erwin K

Small Computers in Libraries , July 1, 1988 , v8 n7 p41-44

Languages: English

Document Type: Software Review

Hardware/Software Compatibility: IBM PC AT; IBM PC AT Compatible

Geographic Location: United States

Presents a favorable review of Word Cruncher 4.22 (\$NA) from Electronic Text Corporation, Provo, UT (801). The **program** consists of two **modules**, a text **retrieval** module (View ETC Text **Retrieval** Software) which is designed to search digitized text and an **indexing** module (**Index** ETC Text **Indexing** Software) which **indexes** unformatted text. The program is easy to set up and use, but the review recommends using it on at least an 80286-based machine as it may be unacceptably slow on other computers.

(djd)

Descriptors: Information **Retrieval** ; **Indexing** ; Software Review;

Text Editor

Identifiers: Word Cruncher; Electronic Text

Set	Items	Description
S1	9	AU=(OSHINSKY D? OR OSHINSKY, D?)
S2	1019877	SOFTWARE OR APPLICATION OR PROGRAM?
S3	8574	(PHYSICAL OR STORAGE) (1N) ADDRESS?
S4	150374	BACKUP OR BACK()UP OR RETRIEV?
S5	969865	STORAGE? OR ARCHIVE?
S6	2788939	DATA OR INFORMATION OR INFO
S7	217934	INDEX?? OR INDICES OR POINTER? ?
S8	5452493	MEDIA OR MEDIUM OR DEVICE?
S9	5	S1 AND S4
S10	1993	S2 AND S3
S11	999	S10 AND S8
S12	79	S11 AND S4
S13	56	S11 AND S7
S14	128	S12 OR S13
S15	2	S14 AND IC=G06F-011/14
S16	5	S11 AND IC=G06F-011/14
S17	1004	S2 AND IC=G06F-011/14
S18	16	S17 AND S3
S19	162	S17 AND S4
S20	4	S19 AND S5 AND S6 AND S7
S21	47	S19 AND S5 AND S6 AND S8
S22	63	S16 OR S18 OR S20 OR S21

? show file

File 344:Chinese Patents Abs Aug 1985-2004/May

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File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

(c) 2004 JPO & JAPIO

File 350:Derwent WPIX 1963-2004/UD,UM &UP=200453

(c) 2004 Thomson Derwent

File 371:French Patents 1961-2002/BOPI 200209

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9/5/2 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014012647 **Image available**
WPI Acc No: 2001-496861/200154
Related WPI Acc No: 2001-522294; 2003-076070
XRPX Acc No: N01-368169

Data retrieval system for computer system, retrieves data from storage media based on particular data location specified by storage and backup map

Patent Assignee: COMMVAULT SYSTEMS INC (COMM-N); IGNATIUS P (IGNA-I); MAY A (MAYA-I); OSHINSKY D A (OSHI-I); PRAHLAD A (PRAH-I)

Inventor: IGNATIUS P; MAY A; OSHINSKY D A ; PRAHLAD A

Number of Countries: 022 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200155857	A2	20010802	WO 2001US3209	A	20010131	200154 B
US 20010029512	A1	20011011	US 2000179345	P	20000131	200162
			US 2001774301	A	20010130	
			US 2001877592	A	20010608	
US 20010047368	A1	20011129	US 2000179345	P	20000131	200202
			US 2001774301	A	20010130	
US 6658436	B2	20031202	US 2000179345	P	20000131	200379
			US 2001774301	A	20010130	
EP 1393181	A2	20040303	EP 2001906839	A	20010131	200417
			WO 2001US3209	A	20010131	

Priority Applications (No Type Date): US 2001774301 A 20010130; US 2000179345 P 20000131; US 2001877592 A 20010608

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200155857 A2 E 24 G06F-012/00

Designated States (National): CA

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

US 20010029512 A1 G06F-017/30 Provisional application US 2000179345

CIP of application US 2001774301

US 20010047368 A1 G06F-012/00 Provisional application US 2000179345

US 6658436 B2 G06F-017/30 Provisional application US 2000179345
EP 1393181 A2 E G06F-012/00 Based on patent WO 200155857

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Abstract (Basic): WO 200155857 A2

NOVELTY - Several storage media (108,110-112) are communicatively connected to a processor that supports operation of any one software application (102). The software application has a **retrieval** module which **retrieves** data from the storage media, based on the data location specified by storage and **backup** map (106).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for data **retrieval** method.

USE - For use in computer system.

ADVANTAGE - Since the storage and **backup** specifies the required location for data **retrieval**, the user is not required to know the latest location of data in the storage media, thus **retrieval** of data from many types of storage media is enabled without assistance beyond the **retrieval** system. Allows end users to view and access in the

logical format that they are used to with their applications or systems.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of data retrieval system.

Software application (102)

Backup map (106)

Storage media (108,110-112)

pp; 24 DwgNo 1/11

Title Terms: DATA; RETRIEVAL ; SYSTEM; COMPUTER; SYSTEM; RETRIEVAL ; DATA ; STORAGE; MEDIUM; BASED; DATA; LOCATE; SPECIFIED; STORAGE; MAP

Derwent Class: T01

International Patent Class (Main): G06F-012/00; G06F-017/30

File Segment: EPI

9/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013980395 **Image available**

WPI Acc No: 2001-464609/200150

XRPX Acc No: N01-344604

Patent No 3980395
Modular backup and retrieval system for network connected computer, has manager module that manages and controls media module that controls backup of data onto library devices

Patent Assignee: COMMVAULT SYSTEMS INC (COMM-N)

Inventor: CRESCENTI J; KAVURI S; OSHINSKY D A ; PRAHLAD A

Number of Countries: 018 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200106368	A1	20010125	WO 2000US19329	A	20000717	200150 B

Priority Applications (No Type Date): US 99354063 A 19990715

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing Notes
WO 200106368	A1	E	48	G06F	011/14	

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Abstract (Basic): WO 200106368 A1

NOVELTY - The manager module in computer (110) is in communication with media modules (126,136) of computers (120,130). Media modules are coupled to library devices (122,132). The media module controls physical backup of data onto library devices and manager module controls media module and also manages overall backup and retrieval functions.

USE - For controlling data backup in computers or network connected computer.

ADVANTAGE - The independent software agents, manager module and software module, focus specifically on archival process and are cohesively operated in network environment across several machines.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of modular network backup system.

Computers (110,120,130)

Library devices (122,132)

Media modules (126,136)

pp; 48 DwgNo 1/12

Title Terms: MODULE; RETRIEVAL ; SYSTEM; NETWORK; CONNECT; COMPUTER; MANAGE; MODULE; MANAGE; CONTROL; MEDIUM; MODULE; CONTROL; DATA; LIBRARY; DEVICE

Derwent Class: T01; U21
International Patent Class (Main): G06F-011/14
File Segment: EPI

9/5/4 (Item 4 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013980305 **Image available**
WPI Acc No: 2001-464519/200150
Related WPI Acc No: 2001-464518
XRPX Acc No: N01-344514

Modular back - up system for computer network, has management component and client component which operate in conjunction with file processor for archival type requests
Patent Assignee: COMMVAULT SYSTEMS INC (COMM-N)
Inventor: CRESCENTI J; KAVURI S; OSHINSKY D A ; PRAHLAD A
Number of Countries: 018 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200104756	A1	20010118	WO 2000US19364	A	20000714	200150 B

Priority Applications (No Type Date): US 2000610738 A 20000706; US 99143743 P 19990714; US 99143744 P 19990714

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200104756 A1 E 28 G06F-011/14

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

Abstract (Basic): WO 200104756 A1

NOVELTY - A file processor, which manages data transmission, operates as a part of a computer. A management component (110) and one client component (120) on another computer operate in conjunction with the file processor for archival type requests.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) a modular network storage system;
- (b) a data storing method.

USE - For computer network.

ADVANTAGE - Simplifies upgrading or changing of **back - up** and **retrieval** system while maintaining data coherency.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic block diagram of modular **back - up** and **retrieval** system.

Management component (110)

Client component (120)

pp; 28 DwgNo 1/3

Title Terms: MODULE; **BACK - UP** ; SYSTEM; COMPUTER; NETWORK; MANAGEMENT; COMPONENT; CLIENT; COMPONENT; OPERATE; CONJUNCTION; FILE; PROCESSOR; ARCHIVE; TYPE; REQUEST

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14

File Segment: EPI

22/5/1 (Item 1 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

07385321
GAME MACHINE

PUB. NO.: 2002-253821 [JP 2002253821 A]
PUBLISHED: September 10, 2002 (20020910)
INVENTOR(s): ICHIKAWA KIMITADA
APPLICANT(s): FUJI SHOJI KK
APPL. NO.: 2001-052827 [JP 200152827]
FILED: February 27, 2001 (20010227)
INTL CLASS: A63F-007/02; G06F-011/00; G06F-011/14

ABSTRACT

PROBLEM TO BE SOLVED: To provide a game machine improved to reproduce an original game as much as possible with power voltage variations or other electric troubles in restarting an interrupted game operation.

SOLUTION: A control **program** of this pachinko machine incorporates a first process started in responding to turning-on of a power and ordinarily finished by an infinite loop process, a second process repeatedly executed for every prescribed times T, and a third process forcedly started when the power voltage is lowered from a normal level. In the third process, a **backup** flag showing the completion of **data** retreat to a prescribed **storage** area is set and a value of a stack **pointer** is stored in a prescribed **storage** area. In the first process, the **backup** flag is reset and the **storage** area is cleared.

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22/5/2 (Item 2 from file: 347)
DIALOG(R) File 347:JAPIO
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05466605 **Image available**
RETRY PROCESSOR OF COMPUTER SYSTEM

PUB. NO.: 09-081405 [JP 9081405 A]
PUBLISHED: March 28, 1997 (19970328)
INVENTOR(s): SUGAYA YUJI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-232400 [JP 95232400]
FILED: September 11, 1995 (19950911)
INTL CLASS: [6] G06F-011/14 ; G06F-001/00; G06F-011/28; G06F-013/00
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units); 45.2 (INFORMATION PROCESSING -- Memory Units); 45.9 (INFORMATION PROCESSING -- Other

ABSTRACT

PROBLEM TO BE SOLVED: To realize the retry processor making it possible to secure the continuity of the processing of a computer system by a bus trace and a **backup** memory also even at the production of an error.

SOLUTION: The **data** of a **data** bus 6, an address bus 7 and a control line 8 is normally held in a trace memory 3. When written in a main **storage** **device** 2, the **data** before the writing is held in the trace memory 3. A

CPU 1 writes the values of the register, the **program** counter and the **stack pointer** within the CPU 1 as the checkpoints for every fixed interval in the **storage device** 2. When an error is produced, an error cause is analyzed, the checkpoint to perform a retry processing is determined, the **data** of the trace memory 3 is written in the **storage device** 2, the contents of the main **storage device** 2 and the register, the **program** counter and the **stack pointer** of the CPU 1 is returned to the contents of the checkpoint to perform the retry processing, the retry processing is started and a **program** is returned to a normal **program**.

22/5/3 (Item 3 from file: 347)
DIALOG(R) File 347:JAPIO
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05131810 **Image available**
PROGRAMMABLE CONTROLLER

PUB. NO.: 08-087310 [JP 8087310 A]
PUBLISHED: April 02, 1996 (19960402)
INVENTOR(s): KAI KOICHI
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-220675 [JP 94220675]
FILED: September 14, 1994 (19940914)
INTL CLASS: [6] G05B-019/05; G06F-011/14
JAPIO CLASS: 22.3 (MACHINERY -- Control & Regulation); 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors)

ABSTRACT

PURPOSE: To provide the **programmable** controller which has an error retrying processing function that enables the continuation of the execution of a **program** without stopping the **program** even if a transient error having wide time width occurs.

CONSTITUTION: This **programmable** controller which operates in optional scanning cycles is equipped with a retrying processing means 42 which tries the reexecution of an instruction where an error occurs, an error **address storage** means 52 which stores the address where the error occurs unless the operation of the **program** recovers through the retrying processing means 42, a scanning cycle ending means 44 which ends the corresponding scanning cycle unless the operation of the **program** recovers through the retrying processing means 42, and execution stopping means 43 and 45 which stops the execution of the whole **program** when the address of the stored error is the same address throughout two successive scanning cycles.

22/5/4 (Item 4 from file: 347)
DIALOG(R) File 347:JAPIO
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05003207 **Image available**
MICROPROGRAM CONTROLLER

PUB. NO.: 07-295807 [JP 7295807 A]
PUBLISHED: November 10, 1995 (19951110)
INVENTOR(s): SHOYAMA TAKAHIKO
KOBAYASHI TAKASHI

SUGIOKA MASAYUKI
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
HITACHI COMPUT ENG CORP LTD [472484] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-084367 [JP 9484367]
FILED: April 22, 1994 (19940422)
INTL CLASS: [6] G06F-009/22; G06F-011/14 ; G06F-011/16
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)

ABSTRACT

PURPOSE: To facilitate the recovery of a failure when it is detected by rewriting a microprogram so as to make the next execution instruction control storage **program** serve as a substitute address.

CONSTITUTION: When a microprogram is read out of a failure occurrence control storage entry ECSE 112 pointed by a current control **storage address** register CCSAR 104, a failure detector 101 checks the failure and reports this checking result to a failure processor 120. The processor 120 prevents the execution of the microprogram having the failure. Then the processor 120 points a substitute control storage entry SCSE 113 and transfers and stores the copy of the microprogram stored in the ECSE 112 shown in the CCSAR 104 to a storage 103. Furthermore the processor 120 points a control storage entry BCSE 111 shown in a precedent control **storage address** register BCSAR 121 and rewrites the next execution control **storage** entry **address** field into an address which points the SCSE 113.

22/5/5 (Item 5 from file: 347)
DIALOG(R) File 347:JAPIO
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04693187 **Image available**
INFORMATION PROCESSOR

PUB. NO.: 07-013787 [JP 7013787 A]
PUBLISHED: January 17, 1995 (19950117)
INVENTOR(s): OGAWARA HIDEKI
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-142420 [JP 93142420]
FILED: June 15, 1993 (19930615)
INTL CLASS: [6] G06F-011/14 ; G06F-001/26; G06F-009/445
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);
45.9 (INFORMATION PROCESSING -- Other)
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessors

ABSTRACT

PURPOSE: To provide a **device** by which the change of the **program** of a subprocessor can be easily performed and error recovery can be performed as an **information** processor capable of saving power consumption and comprised of multiprocessors.

CONSTITUTION: This processor is the **information** processor of multiprocessor system comprised of a main processor part 1, a subprocessor part 2, and a power source part 3, and a power source is always supplied to the subprocessor part 2 from a **backup** power source 32. An error notifying means 24 is provided at the subprocessor part 2, and when an error is

detected in the subprocessor part 2, the occurrence of the error in the subprocessor part 2 is displayed, and a main power source 31 is supplied to the subprocessor part 2 via a power source control interface 25 and a main power source control circuit 33, and the main processor part 1 checks a content displayed by the error notifying means 24 after performing start-up processing, and reads out the control **program** of the subprocessor from external **storage** 4 when detecting the occurrence of the error in the subprocessor part 2, and loads it on the memory 22 of the subprocessor 2 via an inter-processor communication means 26.

22/5/6 (Item 6 from file: 347)

DIALOG(R)File 347:JAPIO

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03548738 **Image available**

COMPRESSION SYSTEM FOR **PROGRAM** **BACKUP** FILE

PUB. NO.: 03-211638 [JP 3211638 A]

PUBLISHED: September 17, 1991 (19910917)

INVENTOR(s): OGINO MASAHIRO

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 02-008792 [JP 908792]

FILED: January 17, 1990 (19900117)

INTL CLASS: [5] G06F-012/00; G06F-011/16; G06F-012/00; **G06F-011/14**

JAPIO CLASS: 45.2 (**INFORMATION** PROCESSING -- Memory Units); 45.1 (**INFORMATION** PROCESSING -- Arithmetic Sequence Units

JOURNAL: Section: P, Section No. 1287, Vol. 15, No. 492, Pg. 23, December 12, 1991 (19911212)

ABSTRACT

PURPOSE: To reduce the capacity of an external **storage device** by providing the correspondence allocation table of a **program** area and compressing the **backup** file of a **program** on a main **storage device** so as to provided it on the external **storage device**.

CONSTITUTION: The main **storage device** 1 is provided with the correspondence allocation table (TBL) 11 of the **program** area 12 and the **program** area on the **backup** file 21 in a hard disk 2. The leading address and the tailing address of the areas in using **programs** A and B in the **program** area 12, and the leading addresses of **program** areas A' and B' in the **backup** file 21 are correspondingly allocated to TBL 11 and are controlled. When the tailing address of the area of the using **program** A and the leading address of the area in the using **program** B are allowed to correspond to the leading address of the **program** area B' in the **backup** file 21, the area of an unused **program** (a) is not allocated to the **backup** file 21. Thus, the capacity of the hard disk can be reduced.

22/5/7 (Item 7 from file: 347)

DIALOG(R)File 347:JAPIO

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03248532 **Image available**

CHECK POINT/ROLL-BACK PROCESSING SYSTEM

PUB. NO.: 02-224032 [JP 2224032 A]

PUBLISHED: September 06, 1990 (19900906)

INVENTOR(s): MUROTANI YUJI

APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 01-044635 [JP 8944635]
FILED: February 23, 1989 (19890223)
INTL CLASS: [5] G06F-011/14
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JOURNAL: Section: P, Section No. 1134, Vol. 14, No. 530, Pg. 56,
November 21, 1990 (19901121)

ABSTRACT

PURPOSE: To obtain a processing speed corresponding to the extent of emergency by performing a check point process and a roll-back process by using a save area in a main storage as to a **program** which is high in the extent of emergency.

CONSTITUTION: When the extent of emergency of the **program** 100 is larger than a specific threshold value, an in-main-storage save area assigning means 3 operates assigns the save area of size satisfying size set in a data area table 12 in the main storage and uses the area as the in-main-storage save area 101. Further, the in-main-storage save area assigning means 3 generates a save area control table 13 in the main storage 10 to set a main storage presence flag on and also store the main **storage address** of the assigned in-main-storage save area 101 in a save area control table 13. Then the check-point process and roll-back process are performed. Consequently, the **program** which is high in the extent of emergency is processed in a short time.

22/5/8 (Item 8 from file: 347)

DIALOG(R) File 347:JAPIO
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02021852 **Image available**
PROCESSOR ERROR RETRYING SYSTEM

PUB. NO.: 61-235952 [JP 61235952 A]
PUBLISHED: October 21, 1986 (19861021)
INVENTOR(s): MIYAZAKI YOSHIHIRO
NISHIKAWA ATSUHIKO
YAMAGUCHI SHINICHIRO
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 60-076461 [JP 8576461]
FILED: April 12, 1985 (19850412)
INTL CLASS: [4] G06F-011/14 ; G06F-009/22
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JOURNAL: Section: P, Section No. 555, Vol. 11, No. 79, Pg. 58, March
11, 1987 (19870311)

ABSTRACT

PURPOSE: To prevent the titled process from becoming a state that a common bus remains occupied at the time of an error, by halting the occupancy of the bus, in case when a control storage parity error has been generated before starting Write, and starting a retry based on the contents of a specified register, after a control storage has been reloaded.

CONSTITUTION: An output of a control **storage address** register, an output 51 of a reserve flag, and an output 67 of a save register can be loaded on a data bus 75, therefore, a **program** of an auxiliary processor can know their contents. When a selection of a control signal is also executed by a decoder 77, and write signal 76 is turned on, a start signal

48, or a control storage write signal 50, or a control storage address register change signal 65 can be turned on, and the program of the auxiliary processor can control these signals. A signal 88, a signal 89, a signal 90, a signal 91, a signal 93, and a signal 61 are set by a bus occupancy request signal, a bus occupancy permitting signal, a read command signal, a write command signal, a response signal, and when a control storage parity error has been generated, respectively. In case when the control storage parity error has been generated in the course of Read-Modify-Write, the bus reserve is released.

22/5/9 (Item 9 from file: 347)
DIALOG(R) File 347:JAPIO
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01383358 **Image available**
RESTART PROCESSING SYSTEM

PUB. NO.: 59-094958 [JP 59094958 A]
PUBLISHED: May 31, 1984 (19840531)
INVENTOR(s): YAMAGUCHI KENJI
DOI AKIHIKO
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 57-202868 [JP 82202868]
FILED: November 20, 1982 (19821120)
INTL CLASS: [3] H04M-003/22; G06F-011/14 ; H04Q-001/20
JAPIO CLASS: 44.4 (COMMUNICATION -- Telephone); 45.1 (INFORMATION
PROCESSING -- Arithmetic Sequence Units
JOURNAL: Section: E, Section No. 268, Vol. 08, No. 209, Pg. 97,
September 22, 1984 (19840922)

ABSTRACT

PURPOSE: To attain economy by using a magnetic tape device as an external storage device to unify the external storage device .
CONSTITUTION: Sub-channels 20a, 20b are connected to duplicated central controllers 10a, 10b and cartridge magnetic tape devices 60a, 60b and typewriters 80a, 80b are connected. The central controllers 10a, 10b include detecting circuits 90a, 90b detecting a system failure impossible for program control and are connected with an emergency control circuit 30. Programs with the less number of times of usage are stored in the cartridge magnetic tape devices 60a(60b), and backup files are stored in the device 60a or 60b to unify the external storage device .

22/5/10 (Item 10 from file: 347)
DIALOG(R) File 347:JAPIO
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01118644 **Image available**
PROTECTION SYSTEM FOR RUNAWAY OF INFORMATION PROCESSOR

PUB. NO.: 58-056044 [JP 58056044 A]
PUBLISHED: April 02, 1983 (19830402)
INVENTOR(s): HIROTA YASUO
SASO HIDEYUKI
ASAKA TOSHIO
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 56-155004 [JP 81155004]

FILED: September 30, 1981 (19810930)
INTL CLASS: [3] G06F-011/14
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JOURNAL: Section: P, Section No. 205, Vol. 07, No. 142, Pg. 109, June
22, 1983 (19830622)

ABSTRACT

PURPOSE: To prevent a runaway of a microprogram when the contents of stand-by information are destroyed, by checking on the propriety of the contents of stand-by hardware information.

CONSTITUTION: When a restarting indication is made during page fault processing, the control **storage address** 12 of stand-by information, and the starting address 15 and ending address 16 of, for example, an instruction control microprogram stored in a starting address register 28 and an ending address register 29 are supplied to a comparison part 31 for a comparison. When a wrong branch to a module other than the instruction control microprogram is to occur as a result of the comparison, an address invalid signal 14 is set to 1 and a fixed address 17 from a fixed address register 30 is set in a control **storage address** register 25 as a substitute for the control **storage address** 12 of the stand-by information. When a **program** for stopping the system is set previously in the area of a control storage **device** 20 which starts at the address 17, the system is prevented from being shut down owing to a runaway of the microprogram.

22/5/11 (Item 11 from file: 347)
DIALOG(R) File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

00947725 **Image available**
CHANNEL CONTROLLER

PUB. NO.: 57-098025 [JP 57098025 A]
PUBLISHED: June 18, 1982 (19820618)
INVENTOR(s): KIMURA KAZUMASA
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 55-173991 [JP 80173991]
FILED: December 10, 1980 (19801210)
INTL CLASS: [3] G06F-003/00; G06F-011/14 ; G06F-013/04
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units); 45.2 (INFORMATION PROCESSING -- Memory Units)
JOURNAL: Section: P, Section No. 143, Vol. 06, No. 183, Pg. 130,
September 18, 1982 (19820918)

ABSTRACT

PURPOSE: To reduce the load of **software** and promote speed-up of processing by **retrieving** the **address storage** section of a rear bus, finding out the corresponding rear bus address and executing again input/output access with the address.

CONSTITUTION: When there is a request for starting input/output (I/O) operation from a CPU1-2, a controller for interruption 7 decodes the bus address of an assigned I/O **device**, transfers this I/O request through a section controlling channel interface 11 to the channel of a channel unit and starts I/O operation. In this case, if the channel **device** is put into operation and busy or an unusable state due to trouble, then, the CPU1

retrieves the address storage section in the rear bus 14, finds out the corresponding rear bus address, and executes again the I/O access with the address.

22/5/12 (Item 1 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015940264 **Image available**

WPI Acc No: 2004-098105/200410

XRPX Acc No: N04-078199

Information processor e.g. personal computer, has storage unit which stores received backup data when detector detects establishment of connection between personal computer and personal digital assistant

Patent Assignee: SHARP KK (SHAF); HANEDA I (HANE-I); SHIGETA D (SHIG-I); UNO H (UNOH-I)

Inventor: HANEDA I; SHIGETA D; UNO H

Number of Countries: 034 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030236933	A1	20031225	US 2003465689	A	20030620	200410 B
EP 1376360	A2	20040102	EP 2003253920	A	20030620	200410
JP 2004029919	A	20040129	JP 2002181387	A	20020621	200410
JP 2004070377	A	20040304	JP 2002181389	A	20020621	200417
JP 2004072128	A	20040304	JP 2002181388	A	20020621	200417
CN 1469251	A	20040121	CN 2003149285	A	20030623	200425

Priority Applications (No Type Date): JP 2002181389 A 20020621; JP 2002181387 A 20020621; JP 2002181388 A 20020621

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20030236933	A1	77		G06F-013/12	
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EP 1376360	A2	E		G06F-011/14	
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2004029919	A	41		G06F-013/00	
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JP 2004070377	A	17		G06F-012/00	
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JP 2004072128	A	34		H04N-001/00	
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CN 1469251	A			G06F-012/00	
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Abstract (Basic): US 20030236933 A1

NOVELTY - A receiver receives the backup data from personal digital assistant (PDA), after deciding the start of automatic backup using decision unit. A storage unit (4) stores the received backup data, when a detector detects the establishment of connection between personal computer (PC) and PDA.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) information equipment;
- (2) information processing system;
- (3) automatic data backup method;
- (4) data transmission method;
- (5) data reception method;
- (6) computer-readable automatic data backup program;
- (7) computer-readable data transmission program;
- (8) computer-readable data reception program;
- (9) computer-readable recorded medium storing data reception program.

USE - Information processor e.g. PC for transmitting text data,

backup data and image data to information equipment (claimed)
e.g. PDA.

ADVANTAGE - Useless automatic data backup operation is prevented by deciding the start of automatic backup operation. The information processing apparatus transmits the received data quickly and correctly.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram illustrating connection between information processing apparatus and personal digital assistant.

processing apparatus (1,6)
display devices (3,8)
storage units (4,9)
connection devices (10,55)
pp; 77 DwgNo 1/50

Title Terms: INFORMATION ; PROCESSOR; PERSON; COMPUTER; STORAGE ; UNIT;
STORAGE ; RECEIVE; DATA ; DETECT; DETECT; ESTABLISH; CONNECT; PERSON;
COMPUTER; PERSON; DIGITAL; ASSIST

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-012/00; G06F-013/00;
G06F-013/12; H04N-001/00

International Patent Class (Additional): G06F-011/00; G06F-012/16;
G06F-015/16; H04N-007/173

File Segment: EPI

22/5/13 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015740728 **Image available**

WPI Acc No: 2003-802929/200375

XRPX Acc No: N03-643589

Snapshots managing method for storage file systems, involves creating baseline snapshot of file system on backup server, waiting for predetermined period of time, and performing incremental restore to the backup server

Patent Assignee: NETWORK APPLIANCE INC (NETW-N); MANLEY S L (MANL-I);
PATTERSON H (PATT-I); SKARDAL H I (SKAR-I)

Inventor: MANLEY S L; PATTERSON H; SKARDAL H I

Number of Countries: 033 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030182301	A1	20030925	US 2002101901	A	20020319	200375 B
EP 1349089	A2	20031001	EP 2003251703	A	20030319	200375
JP 2004038929	A	20040205	JP 200375431	A	20030319	200411

Priority Applications (No Type Date): US 2002101901 A 20020319

Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing	Notes
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US 20030182301	A1	23		G06F	017/30		
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EP 1349089	A2	E		G06F	017/30		
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Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2004038929	A	46		G06F	012/00		
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Abstract (Basic): US 20030182301 A1

NOVELTY - The method involves creating a baseline snapshot of a file system on a backup server and waiting for a predetermined period of time. An incremental restore is performed to the backup server. A new snapshot of the backup server is created. A number of snapshots

are managed according to a user-defined schedule by deleting one or more snapshots.

DETAILED DESCRIPTION - The baseline snapshot is created by performing a baseline dump of a file system associated with a **backup** client. The baseline dump is piped to a baseline file system on the **backup** server. A snapshot of the baseline file system is created on the **backup** server.

INDEPENDENT CLAIMS are also included for the following:

(a) a **backup** server operatively interconnected with a **backup** client

(b) a computer-readable **medium**, including **program** instructions executing on a **backup** server for managing many snapshots.

USE - Used in **storage** file systems for managing **backup** of **data** for **data** protection and restoration.

ADVANTAGE - The method allows the generation of snapshots of file systems, which do not inherently contain the capability to generate a snapshot. The method enables a reliable, fast and low-overhead tapeless **backup** using a remote destination **backup** file server.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic block diagram of a **storage** file system.

Storage operating system (300)

Media access layer (302)

Internet protocol layer (304)

Transport control protocol layer (306)

User datagram protocol layer (308)

Network file system protocol (312)

Common Internet file system protocol (314)

Hyper text transfer protocol (316)

pp; 23 DwgNo 3/14

Title Terms: SNAPSHOT; MANAGE; METHOD; **STORAGE** ; FILE; SYSTEM; BASELINE; SNAPSHOT; FILE; SYSTEM; SERVE; WAIT; PREDETERMINED; PERIOD; TIME; PERFORMANCE; INCREMENT; RESTORATION; SERVE

Derwent Class: T01

International Patent Class (Main): G06F-012/00; G06F-017/30

International Patent Class (Additional): **G06F-011/14**

File Segment: EPI

22/5/14 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015696209 **Image available**

WPI Acc No: 2003-758402/200372

XRPX Acc No: N03-607729

Backup volume creating/updating method for back up system involves determining data that need not be obtained from host system, based on data profile

Patent Assignee: SANLIGHT INC (SANL-N); RAND D L (RAND-I)

Inventor: RAND D L

Number of Countries: 033 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1349068	A2	20031001	EP 2003251873	A	20030325	200372 B
JP 2003296170	A	20031017	JP 200379947	A	20030324	200377
US 20040002999	A1	20040101	US 2002367553	P	20020325	200402
			US 2003391115	A	20030317	

Priority Applications (No Type Date): US 2002367553 P 20020325; US 2003391115 A 20030317

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
EP 1349068 A2 E 13 G06F-011/14
Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR
JP 2003296170 A 29 G06F-012/00
US 20040002999 A1 G06F-017/00 Provisional application US 2002367553

Abstract (Basic): EP 1349068 A2

NOVELTY - **Data** stored on a host system is read and a **data** profile is generated based on the read **data**. The **data** profile characterizes the **data** stored on the host system, which is also sent to a **backup** system. The **data** that need not be obtained from the host system, is determined based on the **data** profile.

DETAILED DESCRIPTION - INDEPENDENT CLAIMs are also included for the following:

- (1) A system for creating/updating a **backup** volume; and
- (2) A computer readable **storage** medium containing **program** for creating/updating.

USE - For **backup** system.

ADVANTAGE - The number of **data** blocks that need to be obtained from host system can be reduced.

DESCRIPTION OF DRAWING(S) - The figure depicts an exemplary process of creating/updating a **backup** volume.

pp; 13 DwgNo 2/4

Title Terms: VOLUME; UPDATE; METHOD; BACK; UP; SYSTEM; DETERMINE; **DATA** ; NEED; OBTAIN; HOST; SYSTEM; BASED; **DATA** ; PROFILE

Derwent Class: T01

International Patent Class (Main): **G06F-011/14** ; G06F-012/00; G06F-017/00

International Patent Class (Additional): G06F-003/06

File Segment: EPI

22/5/15 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

015619886 **Image available**

WPI Acc No: 2003-682057/200365

XRPX Acc No: N03-544583

Back up **method for** back up storage devices **involves reclaiming space on storage device by re-storing data in compressed form on back up storage device**

Patent Assignee: QUANTUM CORP (QUAN); BOLT T B (BOLT-I)

Inventor: BOLT T B

Number of Countries: 033 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1333379	A2	20030806	EP 2003250749	A	20030205	200365 B
JP 2003271435	A	20030926	JP 200327375	A	20030204	200367
US 20030149700	A1	20030807	US 200272437	A	20020205	200370

Priority Applications (No Type Date): US 200272437 A 20020205

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1333379 A2 E 11 G06F-011/14

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HU IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

JP 2003271435 A 26 G06F-012/00

US 20030149700 A1 G06F-017/00

Abstract (Basic): EP 1333379 A2

NOVELTY - The downloading of **data** into a **backup storage device** is done in duty cycles having a **backup** window period and an idle period. The **data** stored during **backup** window period is **retrieved** and compressed during the idle period. Space is reclaimed on the **storage device** by re-storing **data** in compressed form on the **backup storage device**.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a **backup apparatus**.

USE - For **backup storage devices** like **backup tape drive**.

ADVANTAGE - Since the compression occurs when **backup device** is idle the rate at which **data** is backed up is not adversely effected in any way, thus low cost **software data** compression algorithm is used.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of a **backup** and compression duty cycle of the tape drive.

pp; 11 DwgNo 4/4

Title Terms: BACK; UP; METHOD; BACK; UP; **STORAGE ; DEVICE** ; RECLAIM; SPACE; **STORAGE ; DEVICE** ; **STORAGE ; DATA** ; COMPRESS; FORM; BACK; UP; **STORAGE ; DEVICE**

Derwent Class: T01; T03; U21

International Patent Class (Main): **G06F-011/14** ; G06F-012/00; G06F-017/00

International Patent Class (Additional): G06F-003/06

File Segment: EPI

22/5/16 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015319506 **Image available**

WPI Acc No: 2003-380441/200336

XRPX Acc No: N03-303844

Backup restoration system for client-server system, stores backup data internally in response to client's request when data for backup is judged to be issued by server

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU); MIURA K (MIUR-I); OKAMOTO R (OKAM-I); OOHOMO M (OOHO-I); YAMAMOTO M (YAMA-I); MATSUSHITA ELECTRIC IND CO LTD (MATU)

Inventor: MIURA K; OKAMOTO R; OOHOMO M; YAMAMOTO M

Number of Countries: 014 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030028592	A1	20030206	US 2002208036	A	20020731	200336 B
WO 200327848	A2	20030403	WO 2002JP7823	A	20020731	200336
JP 2003288277	A	20031010	JP 2002226019	A	20020802	200367

Priority Applications (No Type Date): JP 200217928 A 20020128; JP 2001236029 A 20010803

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20030028592 A1 49 G06F-015/16

WO 200327848 A2 E G06F-011/14

Designated States (National): CN KR NO SG

Designated States (Regional): DE ES FI FR GB IT NL SE

JP 2003288277 A 33 G06F-012/16

Abstract (Basic): US 20030028592 A1

NOVELTY - A **backup** request receiving unit in a server (110),

receives a **data backup** request from a client (140). A **backup** unit internally holds the **data** for **backup**, when the **data** for **backup** is judged to be issued by the server.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) **server device** ;
(2) **right management server device** ;
(3) **program** for **server device** to perform **backup** for **data** held in a **terminal device** ;
(4) **backup program** for a **server device** in a content distribution system.

USE - For **backup** restoration in client-server system such as digital content distribution system.

ADVANTAGE - The **backup data** can be restored easily even, if the terminal executing the **backup** is broken.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of content distribution system.

server (110)
client (140)
pp; 49 DwgNo 1/27

Title Terms: RESTORATION; SYSTEM; CLIENT; SERVE; SYSTEM; **STORAGE** ; **DATA** ; INTERNAL; RESPOND; CLIENT; REQUEST; **DATA** ; JUDGEMENT; ISSUE; SERVE

Derwent Class: T01

International Patent Class (Main): **G06F-011/14** ; G06F-012/16; G06F-015/16

International Patent Class (Additional): G06F-012/14; G06F-017/60;

H04L-012/46

File Segment: EPI

22/5/17 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015252490 **Image available**

WPI Acc No: 2003-313416/200330

XRXPX Acc No: N03-249480

Electronic data preservation method for recording data in offsite location such that data can be recreated in event of loss or corruption of original, and storing recorded data in safe location

Patent Assignee: CEBRIDGE PTY LTD (CEBR-N)

Inventor: LOCKWOOD C

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200325760	A1	20030327	WO 2002AU924	A	20020702	200330 B
GB 2396723	A	20040630	WO 2002AU924	A	20020702	200443
			GB 20046543	A	20040324	
AU 2002318977	A1	20030401	AU 2002318977	A	20020702	200452

Priority Applications (No Type Date): AU 20017837 A 20010920

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200325760	A1	E	13	G06F-013/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

GB 2396723 A G06F-013/00 Based on patent WO 200325760
AU 2002318977 A1 G06F-013/00 Based on patent WO 200325760

Abstract (Basic): WO 200325760 A1

NOVELTY - The method for preserving electronic **data** , which is created in a generating location having a line connection to an offsite recording location, involves recording the **data** in an offsite location in a form, which is capable of recreating the **data** in the event of loss or corruption of the original.

DETAILED DESCRIPTION - Electronic **data** generated at a generating location e.g. a workplace, is sent by line connection to an offsite recording location from which it is **retrievable** in the event of loss or corruption of the material. The generated **data** is stored online in an intermediate **device** at the generated location and is released offline to a recorder at the offsite recording location via the line connection at a suitable rate. An intermediate recorder at the workplace collects **data** during working hours, encrypts the **data** and sends it offline to a local safe location via a telephone line. The **data** may be stored as discs or tapes in a vault.

USE - Electronic **data storage** and **retrieval** for preserving **data** at offsite location in event of loss or corruption of original **data** .

ADVANTAGE - System works on standard platforms and does not require specialized **software** . Internet independent.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic diagram of the locations.

pp; 13 DwgNo 1/2

Title Terms: ELECTRONIC; **DATA** ; PRESERVE; METHOD; RECORD; **DATA** ; LOCATE; **DATA** ; CAN; EVENT; LOSS; CORRUPT; ORIGINAL; **STORAGE** ; RECORD; **DATA** ; SAFE; LOCATE

Derwent Class: T01; W01

International Patent Class (Main): G06F-013/00

International Patent Class (Additional): G06F-011/14 ; G06F-015/00

File Segment: EPI

22/5/18 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015159892 **Image available**

WPI Acc No: 2003-220420/200321

XRPX Acc No: N03-175838

Network-based database management system controls switching of host computer based on system administration information corresponding to switching, storing of data , and location of host computer

Patent Assignee: TOSHIBA KK (TOKE)

Inventor: FUJIHARA M; KAMIMURA S

Number of Countries: 028 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020184243	A1	20021205	US 2002108465	A	20020329	200321 B
JP 2002297593	A	20021011	JP 2001102169	A	20010330	200321
EP 1265140	A2	20021211	EP 2002252286	A	20020328	200321

Priority Applications (No Type Date): JP 2001102169 A 20010330

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020184243	A1	27		G06F-012/00	
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JP 2002297593	A	31		G06F-017/30	
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EP 1265140 A2 E G06F-011/14
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): US 20020184243 A1

NOVELTY - A controller controls the switching of a host computer based on the system administration **information** corresponding to switching, storing of **data** and location of host computer. The transcription manager communicates the switching **information** to the computers connected to a network.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) database management method; and
- (2) computer-readable **medium** storing database management **program**

USE - For real time monitoring, controlling of **data** shared by computers distributed over a network such as Internet, intranet, etc. Also used for transaction management and distributed system administration for **backup**, recovery from faults and load distribution.

ADVANTAGE - As the host computer switching **information** is transmitted to several computers, system integration is easy and highly flexible to functional modifications. Allows easy execution of different types of settings. Enables quick system recovery during the failure of the host computer.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the database management apparatus provided in the host computer.

pp; 27 DwgNo 2/11

Title Terms: NETWORK; BASED; DATABASE; MANAGEMENT; SYSTEM; CONTROL; SWITCH; HOST; COMPUTER; BASED; SYSTEM; ADMINISTER; **INFORMATION**; CORRESPOND; SWITCH; **STORAGE**; **DATA**; LOCATE; HOST; COMPUTER

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-012/00; G06F-017/30

File Segment: EPI

22/5/19 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015113870 **Image available**

WPI Acc No: 2003-174390/200317

XRPX Acc No: N03-137295

Write back cache management method for computer, involves writing contents of cache memory to non-volatile random access memory when power interruption is detected

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); CIE IBM FRANCE (IBMC)

Inventor: JONES J A; ROTHERT D S

Number of Countries: 100 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020156983	A1	20021024	US 2001838366	A	20010419	200317 B
WO 200286721	A1	20021031	WO 2002EP4327	A	20020328	200317
GB 2391095	A	20040128	WO 2002EP4327	A	20020328	200413
			GB 200324934	A	20031027	
KR 2003083743	A	20031030	KR 2003712120	A	20030917	200415
AU 2002257789	A1	20021105	AU 2002257789	A	20020328	200433

Priority Applications (No Type Date): US 2001838366 A 20010419

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020156983 A1 10 G06F-012/00

WO 200286721 A1 E G06F-011/14

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

GB 2391095 A G06F-011/14 Based on patent WO 200286721

KR 2003083743 A G06F-011/14

AU 2002257789 A1 G06F-011/14 Based on patent WO 200286721

Abstract (Basic): US 20020156983 A1

NOVELTY - The contents of a cache memory are written into a non-volatile random access memory connected to the cache memory, when a power interruption is detected. On resumption of power supply, the contents are written back to the cache memory.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Write back cache managing apparatus;
- (2) Hard disk drive;
- (3) Data storage device controller; and
- (4) Computer program product for implementing write back cache management method.

USE - For managing write back cache in computer.

ADVANTAGE - The contents of the cache are written into the non-volatile memory quickly by providing the non-volatile memory, the data loss during interruption of power supply is avoided and the reliability of cache operation is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining the cache backup operation.

pp; 10 DwgNo 5/5

Title Terms: WRITING; BACK; CACHE; MANAGEMENT; METHOD; COMPUTER; WRITING; CONTENT; CACHE; MEMORY; NON; VOLATILE; RANDOM; ACCESS; MEMORY; POWER; INTERRUPT; DETECT

Derwent Class: T01; U14

International Patent Class (Main): G06F-011/14 ; G06F-012/00

File Segment: EPI

22/5/20 (Item 9 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015096992 **Image available**

WPI Acc No: 2003-157510/200315

Related WPI Acc No: 2003-149439

XRPX Acc No: N03-124338

Preventing data loss in portable device by making periodic communications between backup device and portable data storage device to sound alarm if out of range

Patent Assignee: WIZARD MOBILE SOLUTIONS LTD (WIZA-N)

Inventor: BLOCH S; CURRY A; DEMIRBASA S

Number of Countries: 101 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200309620	A1	20030130	WO 2002GB3274	A	20020718	200315 B

GB 2377776	A	20030122	GB 200117530	A	20010718	200319
GB 2377788	A	20030122	GB 20027933	A	20020405	200319
GB 2377788	B	20031008	GB 20027933	A	20020405	200368
EP 1410667	A1	20040421	EP 2002743449	A	20020718	200427
			WO 2002GB3274	A	20020718	
AU 2002345237	A1	20030303	AU 2002345237	A	20020718	200452

Priority Applications (No Type Date): GB 20027933 A 20020405; GB 200117530 A 20010718

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200309620 A1 E 42 H04Q-007/32

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

GB 2377776 A G06F-012/16

GB 2377788 A G06F-012/16

GB 2377788 B G06F-012/16

EP 1410667 A1 E H04Q-007/32 Based on patent WO 200309620

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

AU 2002345237 A1 H04Q-007/32 Based on patent WO 200309620

Abstract (Basic): WO 2003009620 A1

NOVELTY - Method consists in using a user-carried **backup device** (BD) (20) having a memory and wireless communication (Bluetooth) link (WCL) of 10m or less for communicating with the portable **data storage device** (PDSD) (10). Communication is made periodically between the BD and PDSD over the WCL to **backup data** entered in the PDSD and check for removal of the **device**, and an alarm (30) alerts the user to loss of the PDSD if it is out of communication range for a given period.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

(1) A computer **program** for preventing **data** loss in a portable **device**

(2) A SIM card update

(3) A portable **data storage device**

(4) A **backup device**

(5) An **application** for a portable **data storage device**

(6) A mobile telephone

(7) An **application** for an article of smart clothing

(8) A method of securing a mobile telecommunications **device**

USE - Method is for mobile phones and PDAs.

ADVANTAGE - Method avoids the need for regular manual **backup**.

DESCRIPTION OF DRAWING(S) - The figure shows a system

portable data storage device (10)

backup device (20)

alarm (30)

pp; 42 DwgNo 1/4

Title Terms: PREVENT; **DATA** ; LOSS; PORTABLE; **DEVICE** ; PERIODIC; COMMUNICATE; **DEVICE** ; PORTABLE; **DATA** ; STORAGE ; **DEVICE** ; SOUND; ALARM; RANGE

Derwent Class: T01; U21; W01

International Patent Class (Main): G06F-012/16; H04Q-007/32

International Patent Class (Additional): G06F-001/16; **G06F-011/14**

File Segment: EPI

22/5/21 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015080579 **Image available**
WPI Acc No: 2003-141097/200313
Related WPI Acc No: 2003-141068; 2003-141096; 2003-149150
XRPX Acc No: N03-112022

System for backing up and restoring information has secondary servers with internal tables and requesting global lock from primary server

Patent Assignee: COMPUTER ASSOC THINK INC (COMP-N)

Inventor: VIVEK P

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200305247	A2	20030116	WO 2002US21235	A	20020703	200313 B
EP 1405188	A2	20040407	EP 2002744824	A	20020703	200425
			WO 2002US21235	A	20020703	
AU 2002346066	A1	20030121	AU 2002346066	A	20020703	200452

Priority Applications (No Type Date): US 2001303450 P 20010706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200305247	A2	E	70	G06F-017/30	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

EP 1405188 A2 E G06F-011/14 Based on patent WO 200305247

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR

AU 2002346066 A1 G06F-017/30 Based on patent WO 200305247

Abstract (Basic): WO 2003005247 A2

NOVELTY - System comprises **storage devices** (SDs), a primary server (PS) granting or denying a global lock (GL) to **devices** requesting access to the **storage devices**, and secondary servers (SSs) with internal tables of **information**. The SS requests a GL from the PS and when it is granted the SS checks its tables to determine whether access to the SD can be granted and marks the SD portion as locked. It sends the **information** to the PS and SSs for **storage** in their tables. A network connects the SD, PS and SSs.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

(1) A method of granting and denying access to servers in a network
(2) A computer **program** for granting and denying access to servers in a network

USE - System is for backing up files, databases etc. on servers and other network machines.

ADVANTAGE - System enables the server to be freed up during **information backup**.

DESCRIPTION OF DRAWING(S) - The figure shows a LAN environment.

pp; 70 DwgNo 1a/25

Title Terms: SYSTEM; BACKING; UP; RESTORATION; **INFORMATION**; SECONDARY; SERVE; INTERNAL; TABLE; REQUEST; GLOBE; LOCK; PRIMARY; SERVE

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-017/30
File Segment: EPI

22/5/22 (Item 11 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015080550 **Image available**
WPI Acc No: 2003-141068/200313
Related WPI Acc No: 2003-141096; 2003-141097; 2003-149150
XRPX Acc No: N03-111993

System for backing up and restoring information has job engine periodically scanning queue for jobs to be run

Patent Assignee: COMPUTER ASSOC THINK INC (COMP-N)

Inventor: MANMOHAN J

Number of Countries: 100 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200305158	A2	20030116	WO 2002US21051	A	20020703	200313 B
EP 1405152	A2	20040407	EP 2002763216	A	20020703	200425
			WO 2002US21051	A	20020703	
KR 2004010836	A	20040131	KR 2004700135	A	20040106	200436
KR 2004010837	A	20040131	KR 2004700136	A	20040106	200436
KR 2004010838	A	20040131	KR 2004700137	A	20040106	200436
KR 2004013113	A	20040211	KR 2004700138	A	20040106	200438
AU 2002327188	A1	20030121	AU 2002327188	A	20020703	200452

Priority Applications (No Type Date): US 2001303450 P 20010706

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200305158	A2	E	69	G06F-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW
EP 1405152 A2 E G06F-001/00 Based on patent WO 200305158

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SI

KR 2004010836 A G06F-012/16

KR 2004010837 A G06F-015/16

KR 2004010838 A G06F-011/14

KR 2004013113 A G06F-012/16

AU 2002327188 A1 G06F-000/00 Based on patent WO 200305158

Abstract (Basic): WO 2003005158 A2

NOVELTY - System comprises a **storage (tape) device** and a controller including a scheduling system for allowing a user to input into a job queue, the master job indicating the portions of the **information** to be backed up or restored. A job control system splits the master job into smaller jobs for **backup** or restore of a single source entity for input into the job queue. The user specifies the time for the master job to run and a job engine periodically scans the queue for jobs to be run.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

(1) A method of backing up and restoring **information** on a computer system

(2) A computer **program** for backing up and restoring **information**
USE - System is for backing up files, databases etc. on servers and
other network machines.
ADVANTAGE - System enables the server to be freed up during
information backup.
DESCRIPTION OF DRAWING(S) - The figure shows a LAN environment.
pp; 69 DwgNo 1a/25
Title Terms: SYSTEM; BACKING; UP; RESTORATION; **INFORMATION** ; JOB; ENGINE;
PERIOD; SCAN; QUEUE; JOB; RUN
Derwent Class: T01
International Patent Class (Main): G06F-000/00; G06F-001/00; **G06F-011/14** ;
G06F-012/16; G06F-015/16
File Segment: EPI

22/5/23 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014879248 **Image available**
WPI Acc No: 2002-699954/200276
XRPX Acc No: N02-551788
Real-time distributed database management method involves designating
computers storing original data piece and its replica as base and
replica hosts which are accessible for other computers
Patent Assignee: TOSHIBA KK (TOKE)
Inventor: FUJIHARA M; KAMIMURA S
Number of Countries: 028 Number of Patents: 003
Patent Family:
Patent No Kind Date Applcat No Kind Date Week
EP 1246064 A2 20021002 EP 2002252292 A 20020328 200276 B
JP 2002297432 A 20021011 JP 2001101738 A 20010330 200281
US 20020184198 A1 20021205 US 2002109640 A 20020401 200301

Priority Applications (No Type Date): JP 2001101738 A 20010330
Patent Details:

Patent No	Kind	Lan	Pg	Main	IPC	Filing	Notes
EP 1246064	A2	E	33	GO6F	-011/14		
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT							
LI LT LU LV MC MK NL PT RO SE SI TR							
JP 2002297432	A		29	GO6F	-012/00		
US 20020184198	A1			GO6F	-007/00		

Abstract (Basic): EP 1246064 A2

NOVELTY - A computer storing original **data** piece of a database is
designated as base host and another computer storing replica **data** of
the original **data** is designated as replica host. A **retrieval**
procedure is performed to receive **data** from the base host or replica
host and store in another computer.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
following:

- (1) Computer readable **medium** storing real-time database
management **program** ;
- (2) Real-time database management system; and
- (3) Carrier **medium** for real-time database management.

USE - For managing database in real-time.

ADVANTAGE - Allows addition of databases to a system without
bringing the entire system to a halt by using the base and replica
hosts, and also achieves accurate control of initial **data** loading for
enhancing online system.

DESCRIPTION OF DRAWING(S) - The figure shows the functional block diagram of the real-time distributed database management system.

pp; 33 DwgNo 1/11

Title Terms: REAL; TIME; DISTRIBUTE; DATABASE; MANAGEMENT; METHOD; DESIGNATED; COMPUTER; STORAGE ; ORIGINAL; DATA ; PIECE; REPLICA; BASE; REPLICA; HOST; ACCESS; COMPUTER

Derwent Class: T01

International Patent Class (Main): G06F-007/00; G06F-011/14 ; G06F-012/00

International Patent Class (Additional): G06F-015/00; G06F-015/16; G06F-017/30

File Segment: EPI

22/5/24 (Item 13 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014644577 **Image available**

WPI Acc No: 2002-465281/200250

XRPX Acc No: N02-366774

Controller operating method in disk drive array system, involves operating controllers in write back cache mode when state information of battery backup of both controllers reaches predetermined threshold

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: NIELSON M E; RICHARDSON T E

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2368161	A	20020424	GB 200113693	A	20010606	200250 B
US 6438647	B1	20020820	US 2000602808	A	20000623	200257
GB 2368161	B	20040630	GB 200113693	A	20010606	200444

Priority Applications (No Type Date): US 2000602808 A 20000623

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2368161	A	23		G06F-011/14	
US 6438647	B1			G06F-001/18	
GB 2368161	B			G06F-011/14	

Abstract (Basic): GB 2368161 A

NOVELTY - A controller (122) is switched to a write through cache mode, when a predetermined controller (120) is failed and replaced. The controllers (120,122) are operated in write back cache mode, when the state information of battery backup for both controllers reaches a predetermined value.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) Disk drive array system; and
(2) Article of manufacture comprising program storage medium storing controller operating program .

USE - For use in disk drive array system (claimed).

ADVANTAGE - Data is protected and controller waiting period is shortened by enabling cooperation between replacement and survivor controllers to start write back cache operation immediately.

DESCRIPTION OF DRAWING(S) - The figures show block diagram of disk drive array system and flowchart illustrating the steps for failed controller replacement.

Controllers (120,122)

pp; 23 DwgNo 1, 3/3

Title Terms: CONTROL; OPERATE; METHOD; DISC; DRIVE; ARRAY; SYSTEM; OPERATE;

CONTROL; WRITING; BACK; CACHE; MODE; STATE; INFORMATION ; BATTERY;
CONTROL; REACH; PREDETERMINED; THRESHOLD
Derwent Class: T01; T03
International Patent Class (Main): G06F-001/18; G06F-011/14
International Patent Class (Additional): H02J-007/34
File Segment: EPI

22/5/25 (Item 14 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014595070 **Image available**
WPI Acc No: 2002-415774/200244

XRPX Acc No: N02-327099

Data back - up system for computer network, has random access digital medium and archival digital medium to store logged blocks and synchronous events of self-archiving log structured volume

Patent Assignee: STORAGE TECHNOLOGY CORP (STOS)

Inventor: AUTREY J C; HOLDMAN J M; MARTIN M R

Number of Countries: 095 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200221273	A2	20020314	WO 2001US28420	A	20010910	200244 B
AU 200190778	A	20020322	AU 200190778	A	20010910	200251
EP 1316018	A2	20030604	EP 2001970815	A	20010910	200337
			WO 2001US28420	A	20010910	
US 6732125	B1	20040504	US 2000657291	A	20000908	200430
JP 2004514963	W	20040520	WO 2001US28420	A	20010910	200434
			JP 2002524820	A	20010910	
US 20040107226	A1	20040603	US 2000657291	A	20000908	200436
			US 2003721397	A	20031125	

Priority Applications (No Type Date): US 2000657291 A 20000908; US 2003721397 A 20031125

Patent Details:

Patent No	Kind	Land Pg	Main IPC	Filing Notes
WO 200221273	A2	E	30	G06F-011/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200190778 A G06F-011/00 Based on patent WO 200221273

EP 1316018 A2 E G06F-011/14 Based on patent WO 200221273

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

US 6732125 B1 G06F-017/30

JP 2004514963 W 51 G06F-012/00 Based on patent WO 200221273

US 20040107226 A1 G06F-012/00 Cont of application US 2000657291

Abstract (Basic): WO 200221273 A2

NOVELTY - A self-archiving log structured volume (16) copies blocks from random access digital medium (18) to archival digital medium (20) during execution of storage application (14). An agent indicates the structured volume about correspondence between the blocks and the application. Both the mediums store logged blocks and synchronous events of the structured volume.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for data back - up method.

USE - For data back - up in computer network.

ADVANTAGE - Data is protected soon after it is written and all versions of a data object are recoverable. Since data protection does not depend on operator action, data recovery is fast, easy and reliable.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the self-protecting data back - up system.

Storage application (14)

Self-archiving log structure volume (16)

Random access digital medium (18)

Archival digital medium (20)

pp; 30 DwgNo 1/9

Title Terms: DATA ; BACK; UP; SYSTEM; COMPUTER; NETWORK; RANDOM; ACCESS; DIGITAL; MEDIUM ; ARCHIVE ; DIGITAL; MEDIUM ; STORAGE ; LOG; BLOCK; SYNCHRONOUS; EVENT; SELF; LOG; STRUCTURE; VOLUME

Derwent Class: T01

International Patent Class (Main): G06F-011/00; G06F-011/14 ; G06F-012/00; G06F-017/30

File Segment: EPI

22/5/26 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014581253 **Image available**

WPI Acc No: 2002-401957/200243

XRPX Acc No: N02-315106

Data storage system operating method for transfer of backup data in computer network, involves transmitting backup media remote control command from primary to secondary storage subsystems

Patent Assignee: EMC CORP (EMCE-N)

Inventor: DUNHAM S R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6353878	B1	20020305	US 98133885	A	19980813	200243 B

Priority Applications (No Type Date): US 98133885 A 19980813

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6353878	B1	33	G06F-011/14	

Abstract (Basic): US 6353878 B1

NOVELTY - A backup media remote control command corresponding to the backup media remote control request, is sent from primary data storage subsystem to secondary data storage system, as received from a host processor. The tape library unit (70) in secondary storage system stores a directory of versions of backup data, after execution of the backup media remote control.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- A data storage system;
- A machine readable program storage device containing a program executable by a storage controller of a data storage subsystem

USE - Used in computer network for data storage backup more particularly to remote control of secondary storage subsystem through a primary storage subsystem.

ADVANTAGE - Backup and restore services reduce the impact of

data loss from the network **storage** . Data stored on a network is saved from severe failure of **data** **storage** system.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of **data** processing system.

Tape library unit (70)
pp; 33 DwgNo 4/17

Title Terms: **DATA** ; **STORAGE** ; **SYSTEM**; **OPERATE**; **METHOD**; **TRANSFER**; **DATA** ; **COMPUTER**; **NETWORK**; **TRANSMIT**; **MEDIUM** ; **REMOTE**; **CONTROL**; **COMMAND**; **PRIMARY**; **SECONDARY**; **STORAGE** ; **SUBSYSTEM**

Derwent Class: T01; T03; U21; W01; W04

International Patent Class (Main): **G06F-011/14**

File Segment: EPI

22/5/27 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014395792 **Image available**

WPI Acc No: 2002-216495/200227

XRPX Acc No: N02-165967

Data transfer method for peer to peer remote copying data wherein a bridge or surrogate storage volume is used during the transfer to maintain a snapshot copy of the data being transferred

Patent Assignee: STORAGE TECHNOLOGY CORP (STOS)

Inventor: STATES S A; WEST C J

Number of Countries: 095 **Number of Patents:** 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200167247	A1	20010913	WO 2001US7912	A	20010309	200227	B
AU 200143596	A	20010917	AU 200143596	A	20010309	200227	
US 6446176	B1	20020903	US 2000521341	A	20000309	200260	
EP 1261918	A1	20021204	EP 2001916591	A	20010309	200280	
			WO 2001US7912	A	20010309		
JP 2003526156	W	20030902	JP 2001565000	A	20010309	200358	
			WO 2001US7912	A	20010309		

Priority Applications (No Type Date): US 20000521341 A 20000309

Patent Details:

Patent No **Kind** **Lan Pg** **Main IPC** **Filing Notes**

WO 200167247 A1 E 27 G06F-011/14

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200143596 A G06F-011/14 Based on patent WO 200167247

US 6446176 B1 G06F-011/00

EP 1261918 A1 E G06F-011/14 Based on patent WO 200167247

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

JP 2003526156 W 34 G06F-003/06 Based on patent WO 200167247

Abstract (Basic): WO 200167247 A1

NOVELTY - The Peer to Peer Remote Copy (PPRC) **backup** system maintains a simultaneous copy of the **data** at a second remote site. During a **data** write operation, the primary **storage** (304) is updated by the **application** . Once complete a snapshot copy of the **data** is passed to the primary bridge **storage** (316). This is then relayed over

the network to the secondary bridge volume (320) which updates the secondary **storage device** (310).

DETAILED DESCRIPTION - On completion of the **data** update, the secondary bridge **storage** volume passes a completion message through the second status volume (326) over the network to the primary status volume (318) which de-queues the transfer and in turn updates the primary **storage** volumes.

An INDEPENDENT CLAIM is also included for a **data** processing system using the **data** transfer method.

USE - To provide a peer to peer remote copy (PPRC) **data backup** system.

ADVANTAGE - As the **data** being backed up is first snapshot copied to the primary **storage** volume, the **application** receives a write acknowledgement without incurring the network latency of the previous system, in effect the **backup** task is handed off to the primary bridge **storage** volume.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the **backup** system.

primary **storage** (304)
secondary **storage device** (310)
primary bridge **storage** (316)
primary status volume (318)
secondary bridge volume (320)
second status volume (326)

pp; 27 DwgNo 3/7

Title Terms: **DATA** ; TRANSFER; METHOD; PEER; PEER; REMOTE; COPY; **DATA** ; BRIDGE; SURROGATE; **STORAGE** ; VOLUME; TRANSFER; MAINTAIN; SNAPSHOT; COPY; **DATA** ; TRANSFER

Derwent Class: T01

International Patent Class (Main): G06F-003/06; G06F-011/00; **G06F-011/14**

International Patent Class (Additional): G06F-012/00

File Segment: EPI

22/5/28 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2004 Thomson Derwent. All rts. reserv.

014387098 **Image available**
WPI Acc No: 2002-207801/200227

XRXPX Acc No: N02-158440

Data back - up process in data processing device connected to telecommunication network, involves transmitting back - up data stream to corresponding back - up servers from processing device through telecommunication network

Patent Assignee: ALCATEL (COGE); STEEGMANS F (STEE-I)

Inventor: STEEGMANS F

Number of Countries: 026 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1143338	A1	20011010	EP 2000440069	A	20000310	200227 B
US 20010037474	A1	20011101	US 2001801694	A	20010309	200227
US 6704849	B2	20040309	US 2001801694	A	20010309	200418
EP 1143338	B1	20040519	EP 2000440069	A	20000310	200433
DE 6020010853	E	20040624	DE 2000610853	A	20000310	200442
			EP 2000440069	A	20000310	

Priority Applications (No Type Date): EP 2000440069 A 20000310

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 1143338 A1 E 15 G06F-011/14
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI
US 20010037474 A1 G06F-011/16
US 6704849 B2 G06F-012/16
EP 1143338 B1 E G06F-011/14
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE
DE 6020010853 E G06F-011/14 Based on patent EP 1143338

Abstract (Basic): EP 1143338 A1

NOVELTY - Connections (VA,VBA1,VBA2) are established between a data processing device (TERA) and corresponding remote back - up servers (BA1,BA2) through a telecommunication network (NET). Data streams containing back - up data are transmitted from processing device to corresponding back - up servers, through the network (NET).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Data processing device ;
(b) Program module for data processing device ;
(c) Data back - up service provision server;
(d) Back - up server;
(e) Program module for service provision server;
(f) Program module for back - up server;
(g) Storage medium e.g. floppy disc in which program modules for data processing device and back - up server are stored

USE - For backing-up data of data processing device (claimed) such as personal computer connected to telecommunication network e.g. telephone network, broadband network, internet or any other combination of different networks suitable for data transmission. Is also applicable in telecommunication information networking architecture.

ADVANTAGE - Since back - up data is stored in different remote back - up servers, data loss is eliminated and unauthorized access of back - up data is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows an explanatory drawing of data back - up process.

Remote back - up servers (BA1,BA2)
Telecommunication network (NET)
Data processing device (TERA)
Connections (VA,VBA1,VBA2)
pp; 15 DwgNo 1/5

Title Terms: DATA ; BACK; UP; PROCESS; DATA ; PROCESS; DEVICE ; CONNECT; TELECOMMUNICATION; NETWORK; TRANSMIT; BACK; UP; DATA ; STREAM; CORRESPOND; BACK; UP; SERVE; PROCESS; DEVICE ; THROUGH; TELECOMMUNICATION; NETWORK

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14 ; G06F-011/16; G06F-012/16

File Segment: EPI

22/5/29 (Item 18 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

014105384 **Image available**
WPI Acc No: 2001-589598/200166

XRPX Acc No: N01-439202

Scalable storage architecture system that integrates everything necessary for network storage and provides highly scalable and

redundant storage space

Patent Assignee: DATA FOUND INC (DATA-N); GERASIMOV D V (GERA-I); GERASIMOV I V (GERA-I)

Inventor: GERASIMOV D V; GERASIMOV I V

Number of Countries: 095 Number of Patents: 008

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200142922	A1	20010614	WO 2000US33004	A	20001206	200166 B
AU 200120618	A	20010618	AU 200120618	A	20001206	200166
US 20020069324	A1	20020606	US 99169372	P	19991207	200241
			US 2000730631	A	20001206	
EP 1238335	A1	20020911	EP 2000983926	A	20001206	200267
			WO 2000US33004	A	20001206	
KR 2002090206	A	20021130	KR 2002707304	A	20020607	200325
JP 2003516582	W	20030513	WO 2000US33004	A	20001206	200334
			JP 2001544145	A	20001206	
BR 200016186	A	20030527	BR 200016186	A	20001206	200344
			WO 2000US33004	A	20001206	
CN 1408083	A	20030402	CN 2000816854	A	20001206	200345

Priority Applications (No Type Date): US 99169372 P 19991207; US 2000730631 A 20001206

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200142922	A1	E	36	G06F-011/14	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200120618	A	G06F-011/14	Based on patent WO 200142922
US 20020069324	A1	G06F-012/16	Provisional application US 99169372

EP 1238335	A1	E	G06F-011/14	Based on patent WO 200142922
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

KR 2002090206	A	G06F-011/14
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JP 2003516582	W	46 G06F-012/00	Based on patent WO 200142922
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BR 200016186	A	G06F-011/14	Based on patent WO 200142922
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CN 1408083	A	G06F-011/14
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Abstract (Basic): WO 200142922 A1

NOVELTY - A scalable **storage** architecture **storage** module includes IFS file systems for managing files where **meta-data** and **data** may be stored on multiple separate **devices** with different characteristics and comprises a kernel-space module (78) and a user space communication module (79), communicating through a shared memory interface (92), while a database server (82) stores file **information** and a virtualization demon (80) performs **data** removal from the primary **media**. **Information** is **retrieved** on request by secondary **storage** units (86) from the file system and a repack server (84) efficiently packs **data** on the **storage devices**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for methods for robustly storing **data**, for managing **storage** space and for accessing a historic **storage**.

USE - **Data storage** and **retrieval**.

ADVANTAGE - Providing integrated **storage** solution.

DESCRIPTION OF DRAWING(S) - The drawing is a block diagram of **storage** control **software**

Kernel and user communication modules (78, 79)
Database server (82)
Virtualization demon (80)
Secondary **storage** units (86)
Repack server (84)
pp; 36 DwgNo 5/7
Title Terms: **STORAGE** ; ARCHITECTURE; SYSTEM; INTEGRATE; NECESSARY; NETWORK ; **STORAGE** ; HIGH; REDUNDANT; **STORAGE** ; SPACE
Derwent Class: T01; U21
International Patent Class (Main): G06F-011/14 ; G06F-012/00; G06F-012/16
International Patent Class (Additional): G06F-003/06
File Segment: EPI

22/5/30 (Item 19 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014053440 **Image available**
WPI Acc No: 2001-537653/200160
Related WPI Acc No: 1999-205284; 2001-355374
XRPX Acc No: N01-399415
Data recovery method in operating system, involves intercepting command to release data at disk location Z and establishing indication which indicates disk location Z that stores historic data
Patent Assignee: WILD FILE INC (WILD-N); SYMANTEC CORP (SYMA-N)
Inventor: SCHNEIDER E D
Number of Countries: 027 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1091299	A2	20010411	EP 2000308805	A	20001006	200160 B
JP 2001184246	A	20010706	JP 2000308367	A	20001006	200160
US 6732293	B1	20040504	US 9839650	A	19980316	200430
			US 98105733	A	19980626	
			US 99158336	P	19991007	
			US 99450266	A	19991129	
			US 2000684348	A	20001006	

Priority Applications (No Type Date): US 99158336 P 19991007; US 9839650 A 19980316; US 98105733 A 19980626; US 99450266 A 19991129; US 2000684348 A 20001006

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1091299	A2	E	39	G06F-011/14	
					Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI
JP 2001184246	A		106	G06F-012/00	
US 6732293	B1			H02H-003/05	CIP of application US 9839650 Cont of application US 98105733 Provisional application US 99158336 CIP of application US 99450266 Cont of patent US 6016553 CIP of patent US 6240527

Abstract (Basic): EP 1091299 A2

NOVELTY - Record of historic states of disk having X, Y and Z disk locations are created. New **data** is stored to disk location Y in response to request to overwrite original **data** at disk location X. An indication indicating roles of disk location X and Y is established. Command to release **data** at disk location Z is intercepted and

indication indicating disk location Z storing historic **data** is established in record.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Computer **program** ;
(b) Computer readable **media** prior state restoration method
USE - For recovering **data** stored in digital computer disk of operating system.

ADVANTAGE - Allows reconstruction of prior state of a computer disk in a safe and chronologically controlled manner. Prior state of computer disk is reconstructed using both the current status of the disk and the historical **data** . Combines sector level backups with file **backup** levels to increase both efficiency and reliability. Allows the operating system to select actual **storage** location to write **data** to, while ensuring that old historic **data** that is required to recreate a prior state of disk is protected from the operating system. Supports defragmentation process and shape **data** transition to actual disk **media** .

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram showing the initial system state.

pp; 39 DwgNo 1/33

Title Terms: **DATA** ; RECOVER; METHOD; OPERATE; SYSTEM; INTERCEPT; COMMAND; RELEASE; **DATA** ; DISC; LOCATE; ESTABLISH; INDICATE; INDICATE; DISC; LOCATE; **STORAGE** ; HISTORY; **DATA**

Derwent Class: T01; U21

International Patent Class (Main): **G06F-011/14** ; G06F-012/00; H02H-003/05

International Patent Class (Additional): G06F-003/06; G06F-012/16; G06F-017/30

File Segment: EPI

22/5/31 (Item 20 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013982511

WPI Acc No: 2001-466725/200151

Related WPI Acc No: 2004-327787

XRPX Acc No: N01-387626

Method of copying data from source to destination storage locations by establishing a list of source and destination locations which are made available to host applications and then copying the data

Patent Assignee: EMC CORP (EMCE-N); KEDEM I (KEDE-I); LECRONE D E (LECR-I); MORESHET H (MORE-I); POCOCK B A (POCO-I)

Inventor: KEDEM I; LECRONE D E; MORESHET H; POCOCK B A

Number of Countries: 027 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1065585	A2	20010103	EP 2000305238	A	20000621	200151 B
JP 2001134482	A	20010518	JP 2000236261	A	20000629	200151
US 6363385	B1	20020326	US 99342608	A	19990629	200226
US 20020073090	A1	20020613	US 99342608	A	19990629	200243
			US 200273708	A	20020211	

Priority Applications (No Type Date): US 99342608 A 19990629; US 200273708 A 20020211

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1065585 A2 E 22 G06F-003/06

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI
JP 2001134482 A 57 G06F-012/00
US 6363385 B1 G06F-017/30
US 20020073090 A1 G06F-007/00 Cont of application US 99342608

Abstract (Basic): EP 1065585 A2

NOVELTY - A list of source and destination **storage** location **addresses** is established and these locations are then made immediately available to host **application** processes. The copying of data is then started in an orderly manner, e.g. files can be transferred on a track by track basis. The list is updated to indicate the status, and eventual completion, of the transfer. If an access request is received for a data block during copying, the orderly copying is suspended, the requested block is copied and the list is updated accordingly. The access is then serviced and orderly copying resumed.

USE - In data processing systems.

ADVANTAGE - Interruption of host **application** **programs** is minimized.

pp; 22 DwgNo 0/12

Title Terms: METHOD; COPY; DATA; SOURCE; DESTINATION; STORAGE; LOCATE; ESTABLISH; LIST; SOURCE; DESTINATION; LOCATE; MADE; AVAILABLE; HOST; APPLY; COPY; DATA

Derwent Class: T01; T03; U21

International Patent Class (Main): G06F-003/06; G06F-007/00; G06F-012/00; G06F-017/30

International Patent Class (Additional): G06F-011/14 ; G06F-013/10; G11B-020/10

File Segment: EPI

22/5/32 (Item 21 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

013980394 **Image available**

WPI Acc No: 2001-464608/200150

XRXPX Acc No: N01-344603

Single instance store files provision method in computer system, involves identifying common data in link file, for back up corresponding to function call from back up application program

Patent Assignee: MICROSOFT CORP (MICKT)

Inventor: BOLOSKY W J; CUTSHALL S M

Number of Countries: 028 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200106366	A1	20010125	WO 2000US18990	A	20000712	200150 B
EP 1212681	A1	20020612	EP 2000947265	A	20000712	200239
			WO 2000US18990	A	20000712	
US 6513051	B1	20030128	US 99356383	A	19990716	200311
EP 1212681	B1	20030402	EP 2000947265	A	20000712	200325
			WO 2000US18990	A	20000712	
DE 60001976	E	20030508	DE 601976	A	20000712	200338
			EP 2000947265	A	20000712	
			WO 2000US18990	A	20000712	

Priority Applications (No Type Date): US 99356383 A 19990716

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200106366 A1 E 70 G06F-011/14

Designated States (National): CA JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE
 EP 1212681 A1 E G06F-011/14 Based on patent WO 200106366
 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
 LI LT LU LV MC MK NL PT RO SE SI
 US 6513051 B1 G06F-017/30
 EP 1212681 B1 E G06F-011/14 Based on patent WO 200106366
 Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
 LU MC NL PT SE
 DE 60001976 E G06F-011/14 Based on patent EP 1212681
 Based on patent WO 200106366

Abstract (Basic): WO 200106366 A1

NOVELTY - A function call from a **back up application program** is received corresponding to a link file. The determination of common **data** in link file is performed for **back up**. If the common **data** is not determined, a common **data** is identified for **back up**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) System for identifying single instance store files;
- (b) Single instance store files identification **program**

USE - For backing up and restoring of files in file system used in computer system and **data storage**, also used in other computer system configurations such as hand held **devices**, multiprocessor system, micro processor based on **programmable** consumer electronics, network PC's, mini computers, main frame computers.

ADVANTAGE - By backing up and restoring the single instance store files, the files are preserved efficiently and safely without using more **storage** space thereby accommodating more **data**.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram representing steps taken to restore single instance store (SIS) files.

pp; 70 DwgNo 2B/14

Title Terms: SINGLE; INSTANCE; **STORAGE** ; FILE; PROVISION; METHOD; COMPUTER ; SYSTEM; IDENTIFY; COMMON; **DATA** ; LINK; FILE; BACK; UP; CORRESPOND; FUNCTION; CALL; BACK; UP; APPLY; **PROGRAM**

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14 ; G06F-017/30

File Segment: EPI

22/5/33 (Item 22 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013843519 **Image available**

WPI Acc No: 2001-327732/200134

XRXPX Acc No: N01-235794

Recovery method of database provided with disk **back up**, involves reconstructing remembered set of previous version stored on disk and by changing pointers indicated by that set

Patent Assignee: NOKIA NETWORKS OY (OYNO) ; NOKIA CORP (OYNO) ; OKSANEN K (OKSA-I)

Inventor: OKSANEN K

Number of Countries: 093 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200077645	A1	20001221	WO 2000FI436	A	20000512	200134	B
AU 200045716	A	20010102	AU 200045716	A	20000512	200134	
FI 9901336	A	20001211	FI 991336	A	19990610	200134	
EP 1208439	A1	20020529	EP 2000927282	A	20000512	200243	
			WO 2000FI436	A	20000512		

US 20020078078 A1 20020620 WO 2000FI436 A 20000512 200244
US 200115131 A 20011210

Priority Applications (No Type Date): FI 991336 A 19990610

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200077645 A1 E 30 G06F-012/16

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH
CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE
KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU
SD SE SG SI SK SL TJ TM TR TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200045716 A G06F-012/16 Based on patent WO 200077645

FI 9901336 A G06F-011/14

EP 1208439 A1 E G06F-012/16 Based on patent WO 200077645

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

US 20020078078 A1 G06F-012/00 Cont of application WO 2000FI436

Abstract (Basic): WO 200077645 A1

NOVELTY - Predefined changes are made in central memory storing database only. In addition to most current version (D') of mature generation of database stored on disk, previous version (D) stored on disk are maintained in disk memory. Recovery of database is performed by reconstructing remembered set of previous version and by changing **pointers** indicated by that set to refer to memory cell of most current version.

DETAILED DESCRIPTION - The database comprising primary generation and mature generations is maintained in central memory. The generations contain memory cell in which **data** and additionally **pointers** constituting references between memory cell are stored. The generation-specific remembered sets are stored in the area of mature generations in the central memory in which addresses of the **pointers** pointing to each generation in question are listed. The memory is allocated for use of **application** from the area of the primary generation in central memory. The line memory cell in the primary generation area are collected as new mature generation into mature generations of the central memory. The garbage collection is performed in the area of mature generations. In connection with the collection, a remembered set is examined and line memory cell are copied in the order indicated by the remembered set into temporarily more recent mature generation. As the garbage collection proceeds, changes to the reference between generations are made in the area of mature generation, in generation that has already been stored in disk memory.

USE - For recovery of database provided with disk **back up**, in telephone exchange also for recovery of database used in the industrial process controls. Also for database recovery used in different **application** environments.

ADVANTAGE - Enables substantial reduction in writing onto disk required by **back up**, thus making the operation of database substantially more rapid than the conventional cases. Thereby memory space left for actual payload **data** can also be made substantially greater than conventional cases, since it is not necessary to store the remembered sets on disk at all. The central memory needs only the remembered sets in uncollected mature generations only. The generation remains the same during the entire garbage collection and thus it can be used in system in which more than one processor performs garbage collection in parallel.

DESCRIPTION OF DRAWING(S) - The figure shows flow chart illustrating the operation of recovery system.

pp; 30 DwgNo 3/8
Title Terms: RECOVER; METHOD; DATABASE; DISC; BACK; UP; RECONSTRUCT; SET;
VERSION; **STORAGE** ; DISC; CHANGE; POINT; INDICATE; SET
Derwent Class: T01
International Patent Class (Main): G06F-011/14 ; G06F-012/00; G06F-012/16
International Patent Class (Additional): G06F-017/30
File Segment: EPI

22/5/34 (Item 23 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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013817609 **Image available**
WPI Acc No: 2001-301821/200132

XRPX Acc No: N01-216682

Data back - up **system for computer system for backing up data from disc system to storage medium, to prevent application program being hung up as result of time-out and reduce waiting time for online processing**

Patent Assignee: HITACHI LTD (HITA)

Inventor: ARAKAWA H; KIMURA K; KOSUGE M; OEDA T; TABATA K; WATANABE H;
YAMAGAMI K

Number of Countries: 026 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1058190	A2	20001206	EP 2000111511	A	20000529	200132 B
JP 2000347811	A	20001215	JP 99153386	A	19990601	200132
JP 2001290713	A	20011019	JP 2000113220	A	20000410	200201

Priority Applications (No Type Date): JP 2000113220 A 20000410; JP 99153386 A 19990601

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1058190 A2 E 30 G06F-011/14

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

JP 2000347811 A 16 G06F-003/06

JP 2001290713 A 14 G06F-012/16

Abstract (Basic): EP 1058190 A2

NOVELTY - The **data back - up** system obtains **back - up** of **data** stored in a **storage** system (1) comprising **storage** units, to a **back - up device** (3). The **storage** system (1) operates to transfer user **data** inside a secondary **storage** unit, to the **back - up device** (3) in response to a copy instruction.

DETAILED DESCRIPTION - A **storage** system (1) holds user **data** in two **storage** units. In backing up the user **data**, a split instruction for releasing the duplex state of the two **storage** units is sent from the host computer (2) to the **storage** unit. In response to the split instruction, the **storage** system (1) interrupts the reflection of the update of the user **data** to the first of the **storage** units onto the second **storage** unit. A copy instruction for copying the user **data** held in the second **storage** unit to the **back - up device**, is then sent from the host computer (2) to the **storage** system (1). The **storage** system (1) operates to transfer the user **data** inside the secondary **storage** unit, to the **back - up device** (3) in response to the copy instruction. INDEPENDENT CLAIMS are included for; a **back - up device** coupled with the computer; a **storage** system; a **back - up** method.

USE - Obtaining a **back - up** of the **data** stored in a **storage** unit to the **back - up** **device** .

ADVANTAGE - Enables backing-up of **data** from disc system into **storage** **medium** for **back - up** without having to interrupt I/O processing of an **application** **program** running on a computer. Enables backing up of **data** such that waiting time of writing process of the **application** **program** is reduced as reduction in the times of copies.

DESCRIPTION OF DRAWING(S) - The drawing shows a conceptual diagram showing a general concept of **back - up** processes according to a first embodiment of the invention.

Disc system (1)
Host computer (2)
Back - up storage device (3)
User volume (6a)
Secondary volume (6b)
Data blocks (17)
Pair volume (20)
pp; 30 DwgNo 2/18

Title Terms: **DATA** ; **BACK**; **UP**; **SYSTEM**; **COMPUTER**; **SYSTEM**; **BACKING**; **UP**; **DATA** ; **DISC**; **SYSTEM**; **STORAGE** ; **MEDIUM** ; **PREVENT**; **APPLY**; **PROGRAM** ; **HUNG**; **UP**; **RESULT**; **TIME**; **REDUCE**; **WAIT**; **TIME**; **PROCESS**

Derwent Class: T01; U21

International Patent Class (Main): G06F-003/06; G06F-011/14 ; G06F-012/16

International Patent Class (Additional): G06F-012/00; G06F-013/00

File Segment: EPI

22/5/35 (Item 24 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013781338

WPI Acc No: 2001-265549/200127

XRPX Acc No: N01-189929

Data storage method in digital computer, involves maintaining two copies of data in RAM, which are compared to detect corruption before transferring the data to recording medium

Patent Assignee: WILD FILE INC (WILD-N); SYMANTEC CORP (SYMA-N)

Inventor: GUSTAFSON M J; HAGLER D J; SCHNEIDER E D

Number of Countries: 093 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Aplicat No	Kind	Date	Week
WO 200065447	A1	20001102	WO 2000US10999	A	20000424	200127 B
AU 200044862	A	20001110	AU 200044862	A	20000424	200127
EP 1090348	A1	20010411	EP 2000926314	A	20000424	200128
			WO 2000US10999	A	20000424	
JP 2002543493	W	20021217	JP 2000614125	A	20000424	200312
			WO 2000US10999	A	20000424	

Priority Applications (No Type Date): US 99130814 P 19990423

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200065447 A1 E 38 G06F-011/14

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200044862 A G06F-011/14 Based on patent WO 200065447

EP 1090348 A1 E G06F-011/14 Based on patent WO 200065447
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI
JP 2002543493 W 46 G06F-012/16 Based on patent WO 200065447

Abstract (Basic): WO 200065447 A1

NOVELTY - The changes performed to **data** are maintained on a recording **medium**. Then, two copies of **data** maintained in RAM, are compared for detecting corruption, before transferring the **data** to recording **medium**. The logic protection is split and viewed. The disguised to protect from incompatible **software**. The write cache is flushed by insuring a free time. Then, safe points are inserted, periodically.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) **data** changes recording apparatus;
- (b) computer readable **medium** storing computer **program**

USE - For **backup** and recovery of **data** in digital computer.

ADVANTAGE - All the **data** are collected in swap area and then once **backup** copy is safe on disk, the **data** can be moved into place without risk of loss in event of crash. Eliminates the PC with buggy code and malfunctioning hardware that results in **data** corruption.

pp; 38 DwgNo 0/6

Title Terms: **DATA** ; **STORAGE** ; METHOD; DIGITAL; COMPUTER; MAINTAIN; TWO; COPY; **DATA** ; RAM; COMPARE; DETECT; CORRUPT; TRANSFER; **DATA** ; RECORD; **MEDIUM**

Derwent Class: T01; U21

International Patent Class (Main): **G06F-011/14** ; G06F-012/16

International Patent Class (Additional): G06F-003/06; G06F-012/00; G06F-012/08; G11B-020/10

File Segment: EPI

22/5/36 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013763110 **Image available**

WPI Acc No: 2001-247321/200126

XRPX Acc No: N01-176176

Filing system on a computer non-volatile storage device for backing up data by writing pre-defined signature to unused portions of storage device

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: MCCALL C D

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2353611	A	20010228	GB 9919929	A	19990824	200126 B
US 6658435	B1	20031202	US 2000575586	A	20000522	200379
GB 2353611	B	20040317	GB 9919929	A	19990824	200420

Priority Applications (No Type Date): GB 9919929 A 19990824

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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GB 2353611	A	23		G06F-011/14	
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US 6658435	B1			G06F-012/00	
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GB 2353611	B			G06F-011/14	
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Abstract (Basic): GB 2353611 A

NOVELTY - The filing system is used to identify files that need to be personalized in a first system, the system writes pre-defined **signature data** to the files and scans portions of backed **data** executed by BIOS functions for the signatures. Absence of a signature in the **storage** portion restores previously personalized files.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for a **data** processing system, a computer **program** product stored on a computer readable **medium**.

USE - For backing up **data**.

ADVANTAGE - The **data** is backed-up without access to the filing system and the areas of the original **medium** not used is not affected, some files can be easily personalized before the target operating system boots, and the system name/network addresses does not require changes to make the system unique on the network.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart of the second phase of the **backup program** for filing system.

pp; 23 DwgNo 3/8

Title Terms: FILE; SYSTEM; COMPUTER; NON; VOLATILE; **STORAGE** ; **DEVICE** ; BACKING; UP; **DATA** ; WRITING; PRE; DEFINE; SIGNATURE; PORTION; **STORAGE** ; **DEVICE**

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14 ; G06F-012/00

File Segment: EPI

22/5/37 (Item 26 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013509042 **Image available**

WPI Acc No: 2000-680988/200067

XRXPX Acc No: N00-504219

Computer system is arranged to make a copy of logical volumes of data in a storage system includes a buffer into which the data is copied and from which it is written independently of the data processing units and their channels

Patent Assignee: HITACHI LTD (HITA)

Inventor: ARAI K; SUZUKI S; YASUKAWA H

Number of Countries: 027 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1039387	A2	20000927	EP 2000105661	A	20000317	200067 B
JP 2000339104	A	20001208	JP 200081711	A	20000317	200104
US 6643667	B1	20031104	US 2000528416	A	20000317	200374
US 20040030730	A1	20040212	US 2000528416	A	20000317	200412
			US 2003635764	A	20030805	

Priority Applications (No Type Date): JP 9975174 A 19990319

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 1039387 A2 E 26 G06F-011/14

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

JP 2000339104 A 11 G06F-003/06

US 6643667 B1 G06F-017/30

US 20040030730 A1 G06F-012/00 Cont of application US 2000528416
Cont of patent US 6643667

Abstract (Basic): EP 1039387 A2

NOVELTY - To copy a logical volume of data, the data and a logical

address section is transferred to the buffer. The data is copied into a second section of buffer with the address section transformed from **physical address** of the first volume to **physical address** of the copy of that logical volume. The data is then copied from buffer to a **storage device** to form the copy of the logical volume independently of the data processing units and their channels.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

- (a) a computer **program** product for controlling the copying of information from a first logical volume to a second logical volume;
- (b) a control unit for controlling the copying of information; and
- (c) and a computer system.

USE - In data processing systems.

ADVANTAGE - Avoids occupying data processing units and host channels when copying data.

DESCRIPTION OF DRAWING(S) - The figure shows an illustration of simplified block diagram of a representative example computing system for copying data.

pp; 26 DwgNo 1/11

Title Terms: COMPUTER; SYSTEM; ARRANGE; COPY; LOGIC; VOLUME; DATA; STORAGE; SYSTEM; BUFFER; DATA; COPY; WRITING; INDEPENDENT; DATA; PROCESS; UNIT; CHANNEL

Derwent Class: T01; U21

International Patent Class (Main): G06F-003/06; **G06F-011/14** ; G06F-012/00; G06F-017/30

International Patent Class (Additional): G06F-011/20; G06F-012/08; G06F-012/16; G06F-013/00; H02H-003/05

File Segment: EPI

22/5/38 (Item 27 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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013500638 **Image available**

WPI Acc No: 2000-672579/200065

Related WPI Acc No: 2000-638399; 2000-686872; 2001-158898; 2001-234673; 2001-257172; 2001-273127; 2001-281170; 2003-392171; 2003-418072; 2003-429097; 2003-709490; 2003-844002

XRPX Acc No: N00-498656

Software installation and recovery method in computer environment, involves loading viewing object database code and application software from persistent store, during initialization

Patent Assignee: TIVO INC (TIVO-N)

Inventor: BARTON J M; PLATT D C; STONE S C

Number of Countries: 086 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200058834	A1	20001005	WO 2000US6216	A	20000309	200065 B
AU 200035216	A	20001016	AU 200035216	A	20000309	200106
US 6490722	B1	20021203	US 99127178	P	19990330	200301
			US 99422034	A	19991020	

Priority Applications (No Type Date): US 99422034 A 19991020; US 99127178 P 19990330

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200058834 A1 E 63 G06F-011/14

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW
AU 200035216 A Based on patent WO 200058834
US 6490722 B1 G06F-009/445 Provisional application US 99127178

Abstract (Basic): WO 200058834 A1

NOVELTY - The initial bootstrap instructions initialize low-level parameters of client **device** and load bootstrap loader from persistent store into **program** memory (802). A second stage boot loader (806) locates OS in persistent store and loads it to **program** memory. The OS performs necessary hardware and **software** initialization and loads the viewing object database code and **application software** from persistent store.

DETAILED DESCRIPTION - The boot sector (804) contains sufficient **information** for initial bootstrap, to understand the partitioning of persistent store. The persistent store has two partitions containing a copy of second stage boot loader and OS kernel and a copy of **application software**. A partition table in the boot sector, is recorded with an indication for duplicated partitions which are marked as primary and **back - up**. INDEPENDENT CLAIMS are also included for the following:

- (a) an apparatus for installing and recovering **software** ;
- (b) a **program** product

USE - For maintaining distributed database of television viewing **information** among computer systems.

ADVANTAGE - Improves the ability of individual user to select and automatically time shift TV **programs** while providing opportunities for service provider to enhance and direct the viewing experience.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of bootstrap system.

Program memory (802)
Boot sector (804)
Boot loader (806)
pp; 63 DwgNo 8/10

Title Terms: **SOFTWARE** ; INSTALLATION; RECOVER; METHOD; COMPUTER; ENVIRONMENT; LOAD; VIEW; OBJECT; DATABASE; CODE; APPLY; **SOFTWARE** ; PERSISTENT; **STORAGE** ; INITIALISE

Derwent Class: T01; U21

International Patent Class (Main): G06F-009/445; G06F-011/14

File Segment: EPI

22/5/39 (Item 28 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012991276 **Image available**

WPI Acc No: 2000-163128/200015

XRPX Acc No: N00-121841

Checkpoint producing, which describes base file used in network systems by creating from generated segment descriptions segments description structure as checkpoint

Patent Assignee: CONNECTED PLACE LTD (CONN-N)

Inventor: KORN C; WILLIAMS D C C; KORN C M

Number of Countries: 026 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 981090	A1	20000223	EP 99306389	A	19990813	200015 B
GB 2341249	A	20000308	GB 9817922	A	19980817	200015
US 6513050	B1	20030128	US 99247511	A	19990210	200311

EP 981090	B1	20031217	EP 99306389	A	19990813	200404
DE 69913618	E	20040129	DE 613618	A	19990813	200416
			EP 99306389	A	19990813	

Priority Applications (No Type Date): GB 9817922 A 19980817

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 981090	A1	E	25	G06F-011/14	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

GB 2341249	A			G06F-017/30	
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US 6513050	B1			G06F-017/30	
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EP 981090	B1	E		G06F-011/14	
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Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE

DE 69913618	E		G06F-011/14	Based on patent EP 981090
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Abstract (Basic): EP 981090 A1

NOVELTY - The method involves dividing a base file into a series of segments. For each segment a segment description is generated. From the generated segment descriptions a segments description structure is created as the checkpoint.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for:

(a) a method of producing a morph list that defines an updated version of base file with reference to the base file and check point
(b) a method of generating a difference file defining differences between an updated file and a base file

USE - For producing a checkpoint, which describes a box file and a method of generating a difference file defining differences between an updated file and a base file. The invention can be applied for example to network systems where a remote copy of a file is kept up-to-date by the transmission and **application** of the differences between the successive versions of the local copy.

ADVANTAGE - Allows using bandwidth more efficiently, which includes modern on-line **backup** and **data** replication systems. Enable applications to transmit only the changes to memory-loaded files from client to server on successive save operations and can also be applied for example to **backup** subsystems, where storing only a difference to files can make more economical use of **storage media**.

DESCRIPTION OF DRAWING(S) - The drawing is a flowchart showing a series procedures embodying the invention.

pp; 25 DwgNo 1/13

Title Terms: CHECKPOINT; PRODUCE; DESCRIBE; BASE; FILE; NETWORK; SYSTEM;
GENERATE; SEGMENT; DESCRIBE; SEGMENT; DESCRIBE; STRUCTURE; CHECKPOINT

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14 ; G06F-017/30

File Segment: EPI

22/5/40 (Item 29 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012531407 **Image available**

WPI Acc No: 1999-337513/199928

XRPX Acc No: N99-252938

Computer back up memory system using self-monitoring analysis and reporting technology (SMART) of disk drive

Patent Assignee: GATEWAY 2000 INC (GATE-N)

Inventor: ASSAF M

Number of Countries: 021 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9923562	A1	19990514	WO 98US23152	A	19981030	199928 B
AU 9912940	A	19990524	AU 9912940	A	19981030	199940
JP 2001522089	W	20011113	WO 98US23152	A	19981030	200204
			JP 2000519357	A	19981030	

Priority Applications (No Type Date): US 97962624 A 19971103

Patent Details:

Patent No	Kind	Lat Pg	Main IPC	Filing Notes
WO 9923562	A1	E	22 G06F-011/14	Designated States (National): AU CA JP
				Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
AU 9912940	A		G06F-011/14	Based on patent WO 9923562
JP 2001522089	W	23	G06F-003/06	Based on patent WO 9923562

Abstract (Basic): WO 9923562 A1

NOVELTY - Disk SMART system (210) monitors disk attributes by providing registers which are polled by BIOS/Driver (212) and used by **application** agent (214) to determine impending failure, and initiate tape (120) **backup** of **data** on disk drive (118). **Backup program** (222) can cause **backup** to any suitable **storage device** which can be remote. Polling interval can be user defined.

DETAILED DESCRIPTION - Disk attributes include: head flying height, spin-up time, reallocated sector count, seek error rate, seek time performance, spin try recount, and drive calibration retry count.

USE - Personal computers, portable computers, servers, midrange computers.

ADVANTAGE - Prevents loss of **data** when disk drive fails. Allows user to continue working or leave unattended.

DESCRIPTION OF DRAWING(S) - The drawing shows component parts of the invention.

Disk drive (118)
tape drive (120)
SMART system (210)
BIOS/Driver (212)
application agent (214)
Backup program (222)

pp; 22 DwgNo 2/4

Title Terms: COMPUTER; BACK; UP; MEMORY; SYSTEM; SELF; MONITOR; ANALYSE; REPORT; TECHNOLOGY; SMART; DISC; DRIVE

Derwent Class: T01; T03

International Patent Class (Main): G06F-003/06; **G06F-011/14**

International Patent Class (Additional): G06F-012/16

File Segment: EPI

22/5/41 (Item 30 from file: 350)

DIALOG(R) File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

012399175 **Image available**
WPI Acc No: 1999-205282/199917
Related WPI Acc No: 1999-145003
XRPX Acc No: N99-151172

Data back - up and recovery system for tape storage
Patent Assignee: HEWLETT-PACKARD CO (HEWP)
Inventor: BATHIE J; CRIGHTON I P; GOLD S; KING P
Number of Countries: 020 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9912098	A1	19990311	WO 98GB2603	A	19980828	199917 B
EP 1008048	A1	20000614	EP 98940428	A	19980828	200033
			WO 98GB2603	A	19980828	
EP 1008048	B1	20011031	EP 98940428	A	19980828	200169
			WO 98GB2603	A	19980828	
DE 69802294	E	20011206	DE 602294	A	19980828	200203
			EP 98940428	A	19980828	
			WO 98GB2603	A	19980828	

Priority Applications (No Type Date): EP 97306629 A 19970829; EP 97306628 A 19970829

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9912098	A1	E	34	G06F-011/14	
					Designated States (National): JP US
					Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
EP 1008048	A1	E		G06F-011/14	Based on patent WO 9912098
					Designated States (Regional): DE FR GB
EP 1008048	B1	E		G06F-011/14	Based on patent WO 9912098
					Designated States (Regional): DE FR GB
DE 69802294	E			G06F-011/14	Based on patent EP 1008048
					Based on patent WO 9912098

Abstract (Basic): WO 9912098 A1

NOVELTY - In a network environment (200), multiple clients (210) and multiple servers (230) are connected via a local area network (LAN) (220) to a tape **back - up** apparatus (240). Each client (210) and each server is provided with **back - up** agent **software** (215), which schedules **back - up** operations on the basis of time since the last **back - up**, or the amount of **information** generated since the last **back - up**. An agent (215a) also sends a request to the tape **back - up** apparatus prior to the actual **back - up**, including **information** representing the files that it intends to **back up**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for; a method for backing up to a **data back - up** and restore apparatus attached to a network; a **data storage** system; and a **data back - up** and restore apparatus.

USE - **Data back - up** and recovery in tape **storage** system in computer networks.

ADVANTAGE - Clients do not need to send redundant files for **back - up**.

DESCRIPTION OF DRAWING(S) - The drawing shows a diagram of a computer network modified in accordance with the invention.

Client machines (210a-210n)

Back - up agents (215)

Local area network (220)

Multiple servers (230)

Tape **back - up** apparatus (240)

On-line **media** (244)

pp; 34 DwgNo 2/9

Title Terms: **DATA** ; **BACK**; **UP**; **RECOVER**; **SYSTEM**; **TAPE**; **STORAGE**

Derwent Class: T01; U21

International Patent Class (Main): **G06F-011/14**

File Segment: EPI

22/5/42 (Item 31 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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012166958 **Image available**
WPI Acc No: 1998-583870/199849

XRPX Acc No: N98-454826

Mapped virtual storage back - up system for use with data processor - determines source and destination device volumes before activating snapshot copy resources, of the storage subsystem, to perform back - up

Patent Assignee: STORAGE TECHNOLOGY CORP (STOS)

Inventor: TOMSULA P J; WHITE M W

Number of Countries: 020 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9848347	A1	19981029	WO 98US7456	A	19980415	199849 B
EP 976043	A1	20000202	EP 98915552	A	19980415	200011
			WO 98US7456	A	19980415	
US 6119208	A	20000912	US 97844480	A	19970418	200046
EP 976043	B1	20020220	EP 98915552	A	19980415	200214
			WO 98US7456	A	19980415	
DE 69803924	E	20020328	DE 603924	A	19980415	200229
			EP 98915552	A	19980415	
			WO 98US7456	A	19980415	

Priority Applications (No Type Date): US 97844480 A 19970418

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9848347 A1 E 18 G06F-011/14

Designated States (National): JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

EP 976043 A1 E G06F-011/14 Based on patent WO 9848347

Designated States (Regional): DE FR

US 6119208 A G06F-013/00

EP 976043 B1 E G06F-011/14 Based on patent WO 9848347

Designated States (Regional): DE FR

DE 69803924 E G06F-011/14 Based on patent EP 976043

Based on patent WO 9848347

Abstract (Basic): WO 9848347 A

When an application program requests a backup or copy of a selected device, the MVS (Multiple Virtual Storage) device backup system determines the source device volume and the destination (target) device volume on the data storage subsystem, in order to identify the extents of both.

The backup system then transmits data to the data storage system, representing the assignment of DASD (Direct Access Storage Device) full tracks from the source device location on the data storage subsystem, as well as DASD full tracks from the target device location on the data storage subsystem.

The backup system then uses ECAM (Extended Channel Access Method) channel programs to instruct the data storage subsystem to perform a backup operation using the data storage subsystem snapshot track pointer copy operations.

ADVANTAGE - Minimises the use of data processor resources, as the processor is not used to perform the movement of device data during the backup operation.

Dwg.2/2

Title Terms: MAP; VIRTUAL; STORAGE ; BACK - UP ; SYSTEM; DATA ;

PROCESSOR; DETERMINE; SOURCE; DESTINATION; DEVICE ; VOLUME; ACTIVATE;
SNAPSHOT; COPY; RESOURCE; STORAGE ; SUBSYSTEM; PERFORMANCE; BACK - UP
Derwent Class: T01; U21
International Patent Class (Main): G06F-011/14 ; G06F-013/00
International Patent Class (Additional): G06F-012/00
File Segment: EPI

22/5/43 (Item 32 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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012161560 **Image available**
WPI Acc No: 1998-578472/199849
XRPX Acc No: N98-451214

Computer system with state preserving function - has main memory that is used for operation of application , and back - up memory with similar area section as main memory to store state information of peripheral devices
Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 10260854 A 19980929 JP 9755268 A 19970310 199849 B

Priority Applications (No Type Date): JP 9755268 A 19970310

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
JP 10260854 A 11 G06F-011/14

Abstract (Basic): JP 10260854 A

The system has a CPU (12) with a main memory (13) by which the state information of a peripheral device (6) is assigned to a back - up memory mapping area. The I/O instruction from the CPU is developed to an instruction based on each peripheral device , and sent to the peripheral devices .

A peripheral device controller receives the I/O result of normal or abnormal degree from the peripheral devices . A back - up memory (21) with same area section as the main memory used for the operation of an application , is connected to the CPU and the peripheral device controller via a common bus. The back - up memory preserves the state of each peripheral device .

ADVANTAGE - Improves reliability since state of peripheral devices are preserved. Minimises processing time during abnormal operation of system and reduces processing time of peripheral devices using flash memory during abnormalities. Prevents malfunction of application caused by inaccurate state information of peripheral devices since state information is held.

Dwg.1/6

Title Terms: COMPUTER; SYSTEM; STATE; PRESERVE; FUNCTION; MAIN; MEMORY; OPERATE; APPLY; BACK - UP ; MEMORY; SIMILAR; AREA; SECTION; MAIN; MEMORY ; STORAGE ; STATE; INFORMATION ; PERIPHERAL; DEVICE

Index Terms/Additional Words: CENT RA L _ PROCE SSING _ UNIT _ INPUT- ; PROCESSING; UNIT; INPUT-OUTPUT

Derwent Class: T01; U21

International Patent Class (Main): G06F-011/14

International Patent Class (Additional): G06F-013/00

File Segment: EPI

22/5/44 (Item 33 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011397597

WPI Acc No: 1997-375504/199735

XRPX Acc No: N97-311750

Data storage and back - up computer for printing press - has rewritable storage media i.e. hard disk or non-volatile semiconductor memory i.e. battery or accumulator buffered RAM both used to store machine rhythm dependent data

Patent Assignee: MAN ROLAND DRUCKMASCH AG (MAUG); MAN ROLAND DRUCKMASCHINEN AG (MAUG)

Inventor: DUSCHL D; SCHLITZ T

Number of Countries: 003 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2310059	A	19970813	GB 972385	A	19970206	199735	B
DE 19604127	A1	19970807	DE 1004127	A	19960206	199737	
FR 2744541	A1	19970808	FR 971209	A	19970204	199739	
GB 2310059	B	19980610	GB 972385	A	19970206	199825	
DE 29623689	U1	19990512	DE 1004127	A	19960206	199925	
			DE 96U2023689	U	19960206		

Priority Applications (No Type Date): DE 1004127 A 19960206; DE 96U2023689 U 19960206

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2310059	A	14		G06F-011/14	
DE 19604127	A1	4		G06F-012/16	
DE 29623689	U1			G06F-012/16	application DE 1004127
FR 2744541	A1			G06F-012/16	
GB 2310059	B			G06F-011/14	

Abstract (Basic): GB 2310059 A

The computer has two non-volatile, re-writable storage devices i.e. a hard disk drive or HDD and the other has a semiconductor-based battery buffered RAM which contains at least some of the data files which can be called up and written by the programme of the computer. Continuously arising data are written by the computer into the data files contained in the battery buffered RAM.

From time to time the data files contained in the battery buffered RAM are backed up on to the hard disk drive. During the access-free time the read-write head of the HDD is moved across regions or cylinders of the drive, so that any head crashes are not concentrated in one region of the disk, and so the disk may be tested.

ADVANTAGE - More effective protection against loss of data arising at short time intervals, esp. w.r.t. detection and storage of machine rhythm dependent data having corresp. frequent accesses to same regions of tracks and cylinders of drive at which head is positioned - i.e. data losses caused by disk crashes can be minimised, esp. of data arising from the capture and recording of data which arise at a rate dependent upon printing speed, e.g. counter state of printer sheet counter.

Dwg.0/0

Title Terms: DATA ; STORAGE ; BACK; UP; COMPUTER; PRINT; PRESS; REWRITING ; STORAGE ; MEDIUM ; HARD; DISC; NON; VOLATILE; SEMICONDUCTOR; MEMORY; BATTERY; ACCUMULATOR; BUFFER; RAM; STORAGE ; MACHINE; RHYTHM; DEPEND; DATA

Derwent Class: P74; S06; T01

International Patent Class (Main): G06F-011/14 ; G06F-012/16
International Patent Class (Additional): B41F-033/16; G06F-003/12;
G06F-011/16; G06K-015/02; G11B-021/02
File Segment: EPI; EngPI

22/5/45 (Item 34 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

011385943 **Image available**
WPI Acc No: 1997-363850/199733

XRXPX Acc No: N97-302446

Mainframe data and application migration method between DASDs -
involves mirroring data volumes from source to target DASD, updates to
data volumes by applications of source mainframe to target DASD and
synchronising updates to volumes by source mainframe applications with
target DASD updates

Patent Assignee: MCI COMMUNICATIONS CORP (MCIC-N)

Inventor: HAYTER J

Number of Countries: 022 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9724669	A1	19970710	WO 96US20150	A	19961230	199733 B
AU 9713365	A	19970728	AU 9713365	A	19961230	199746
US 6405294	B1	20020611	US 95581721	A	19951229	200244

Priority Applications (No Type Date): US 95581721 A 19951229

Cited Patents: 1.Jnl.Ref; EP 566966; EP 602822; EP 670551; GB 2273180; WO
9400816; WO 9425919

Patent Details:

Patent No	Kind	Ln	Pg	Main IPC	Filing Notes
WO 9724669	A1	E	38	G06F-011/20	

Designated States (National): AU CA JP MX

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

AU 9713365	A	G06F-011/20	Based on patent WO 9724669
US 6405294	B1	G06F-013/14	

Abstract (Basic): WO 9724669 A

The method involves verifying **data** integrity on source DASD (104), and initiates processes to mirror volumes of **data** from source DASD to target DASD, and to mirror **data** updates to volumes of **data** by the applications of the source mainframe to the target DASD. The **data** updates are synchronised to the volumes by the source mainframe applications with corresponding **data** updates to the target DASD.

The source mainframe (102) applications are deactivated, and the remaining **data** updates are mirrored to the target DASD (124). The source **data** centre is disconnected from the target **data** centre. The target **data** centre is brought on line and the target mainframe (122) applications are initiated.

ADVANTAGE - **Application** downtime is greatly reduced. No **backup** to tape, transportation or restore to target system is needed, giving customer **application** down time of sixty minutes during which processing is transferred from one **data** centre to another.

Dwg.1/3

Title Terms: MAINFRAME; **DATA** ; APPLY; MIGRATION; METHOD; MIRROR; **DATA** ;
VOLUME; SOURCE; TARGET; DASD; UPDATE; **DATA** ; VOLUME; APPLY; SOURCE;
MAINFRAME; TARGET; DASD; SYNCHRONISATION; UPDATE; VOLUME; SOURCE;
MAINFRAME; APPLY; TARGET; DASD; UPDATE

Index Terms/Additional Words: DIRE CT_A CCES ; ACCESS; STORAGE ;
DEVICE
Derwent Class: T01
International Patent Class (Main): G06F-011/20; G06F-013/14
International Patent Class (Additional): G06F-011/14
File Segment: EPI

22/5/46 (Item 35 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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011296191 **Image available**
WPI Acc No: 1997-274096/199725
XRPX Acc No: N97-227015

Method for backing up data in computer system from primary to backup store - saves local image copy of volume to backup medium such as magnetic tape, logical image copy can later be restored in its entirety to disk volume with different physical geometry and flaw map in disaster recovery mode

Patent Assignee: STAC INC (STAC-N); STAC ELECTRONICS (STAC-N)

Inventor: MATZE J E G; WHITING D L

Number of Countries: 004 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 767431	A1	19970409	EP 96307287	A	19961004	199725 B
JP 10055298	A	19980224	JP 96264578	A	19961004	199818
US 5907672	A	19990525	US 95539315	A	19951004	199928

Priority Applications (No Type Date): US 95539315 A 19951004

Cited Patents: 1.Jnl.Ref; EP 566967; WO 9513580

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 767431	A1	E	24	G06F-011/14	
					Designated States (Regional): DE GB
JP 10055298	A		23	G06F-012/00	
US 5907672	A			G06F-011/16	

Abstract (Basic): EP 767431 A

The method reads a set of logically contiguous sectors from the primary store using an OS **software** call providing access to files on the primary store, it performs any physical remapping necessary to avoid previously detected physical flaws on the primary store. The set of sectors are written to the **backup** store, such as magnetic tape. A partition is created on the restore store of a size as large as the size of the primary store.

A set of logically contiguous sectors is read from a location on from the **backup**, and written to the partition of the restore store using a **software** call to the OS that provides access to the files stored on the partition. The call performs any physical level remapping as before for the restore store.

USE/ADVANTAGE - For backing up **data** at high speed from a computer disk volume onto **backup** **medium** and subsequently restoring some or all **data** in event of **data** loss or corruption. Allows high speed tape **devices** to stream during **backup** process, without forcing user to accept compromises in flexibility or performance of restore process.

Dwg.4/10

Title Terms: METHOD; BACKING; UP; **DATA** ; COMPUTER; SYSTEM; PRIMARY; **STORAGE** ; SAVE; LOCAL; IMAGE; COPY; VOLUME; **MEDIUM** ; MAGNETIC; TAPE; LOGIC; IMAGE; COPY; CAN; LATE; RESTORATION; DISC; VOLUME; PHYSICAL;

GEOMETRY; FLAW; MAP; DISASTER; RECOVER; MODE
Derwent Class: T01
International Patent Class (Main): G06F-011/14 ; G06F-011/16; G06F-012/00
International Patent Class (Additional): G06F-003/06
File Segment: EPI

22/5/47 (Item 36 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010907724 **Image available**
WPI Acc No: 1996-404675/199641
XRPX Acc No: N96-340896

Data back - up and restore device e.g. media - comprises SCSI storage controller, decoder-encoder, LAN interface for connection to network separately and remotely from computer or file-server and LAN co-processor for data transfer between storage and computer

Patent Assignee: CRISTIE ELECTRONICS LTD (CRIS-N)

Inventor: BURTON R J; MOURTON A F

Number of Countries: 020 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2298940	A	19960918	GB 9512904	A	19950624	199641 B
WO 9701817	A1	19970116	WO 96GB1449	A	19960618	199709

Priority Applications (No Type Date): GB 9512904 A 19950624

Cited Patents: 1.Jnl.Ref; FR 2646539

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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GB 2298940	A	15		G06F-011/14	
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WO 9701817	A1	E	16	G06F-013/12	
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Designated States (National): JP KR US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

Abstract (Basic): GB 2298940 A

The **data backup /restore device** (1), which is not itself a computer workstation or file server, is provided for backing up and restoring **data** supplied over a local area network (3) comprising computer workstations and a file server interconnected by a network connection. The **device** (1) comprises a **data storage device** (2), a **storage device controller** (4), a decoder-encoder (8) and a LAN interface (9) for connection to the network connection separately from a computer workstation or file server, and a LAN co-processor (6) for transferring **data** between the **data storage device** (2) and the computer workstation.

The **data back - up or restore device** (1) can be connected to the local area network (3) at a location remote from any computer workstation or file server within the network.

ADVANTAGE - Performs **data back - up** and restore operations and **data** interchange with any computer workstation or file server without need for direct connection to computer workstation or file server and without need to load and run any **software** on file server. Avoids fitting of extra interface boards within personal computer. No **software** module is resident on file server.

Dwg.1/2

Title Terms: **DATA** ; **BACK - UP** ; **RESTORATION**; **DEVICE** ; **MEDIUM** ; **COMPRISE** ; **STORAGE** ; **CONTROL**; **DECODE**; **ENCODE**; **LAN**; **INTERFACE**; **CONNECT**; **NETWORK**; **SEPARATE**; **REMOTE**; **COMPUTER**; **FILE**; **SERVE**; **LAN**; **CO**; **PROCESSOR**; **DATA** ;

TRANSFER; STORAGE ; COMPUTER
Derwent Class: T01
International Patent Class (Main): G06F-011/14 ; G06F-013/12
International Patent Class (Additional): G06F-003/06
File Segment: EPI

22/5/48 (Item 37 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010729646 **Image available**
WPI Acc No: 1996-226601/199623
XRPX Acc No: N96-190369

Programmable controller in process controls e.g. in plant - in which execution of program is stopped by execution stop unit after storing error generated address in storage unit

Patent Assignee: TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8087310	A	19960402	JP 94220675	A	19940914	199623 B

Priority Applications (No Type Date): JP 94220675 A 19940914

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8087310	A	9		G05B-019/05	

Abstract (Basic): JP 8087310 A

The **programmable** controller carries out execution of an instruction input at a certain scanning period. In case of error generation, a retry processing unit (42) comprising an error retry processing function, performs execution of a instruction for a number of times until the error is eliminated.

If error is not eliminated, then the concerned scanning period is terminated by a scanning period end unit (44), thereby storing the error generated address in a storage unit (52). Finally, the execution of the **program** is stopped by an execution stop unit (43).

ADVANTAGE - Improves error retry processing of input access.

Dwg.1/6

Title Terms: PROGRAM ; CONTROL; PROCESS; CONTROL; PLANT; EXECUTE; PROGRAM ; STOP; EXECUTE; STOP; UNIT; AFTER; STORAGE; ERROR; GENERATE; ADDRESS; STORAGE; UNIT

Derwent Class: T01; T06

International Patent Class (Main): G05B-019/05

International Patent Class (Additional): G06F-011/14

File Segment: EPI

22/5/49 (Item 38 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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010255673 **Image available**
WPI Acc No: 1995-156928/199521
XRPX Acc No: N95-123605

Remote back - up device for digital data to central data store - has local program to encipher, compress and initiate transfer over ISDN links of file modified since last backup
Patent Assignee: FERRAND C (FERR-I); ROUZE G (ROUZ-I); FRANCE TELECOM (ETFR

)
Inventor: FERRAND C; ROUZE G
Number of Countries: 020 Number of Patents: 010
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 650122	A1	19950426	EP 94402351	A	19941019	199521 B
WO 9511483	A1	19950427	WO 94FR1215	A	19941019	199522
FR 2711816	A1	19950505	FR 9312771	A	19931021	199523
AU 9481091	A	19950508	AU 9481091	A	19941019	199533
JP 9504130	W	19970422	WO 94FR1215	A	19941019	199726
			JP 95511415	A	19941019	
EP 650122	B1	19980325	EP 94402351	A	19941019	199816
DE 69409197	E	19980430	DE 609197	A	19941019	199823
			EP 94402351	A	19941019	
ES 2117228	T3	19980801	EP 94402351	A	19941019	199838
AU 701007	B	19990121	AU 9481091	A	19941019	199915
CA 2174653	C	19990615	CA 2174653	A	19941019	199942
			WO 94FR1215	A	19941019	

Priority Applications (No Type Date): FR 9312771 A 19931021
Cited Patents: Jnl.Ref; US 5133065

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 650122	A1	F 9	G06F-011/14	Designated States (Regional): AT BE CH DE DK ES GB GR IE IT LI LU MC NL PT SE
WO 9511483	A1	F 20	G06F-011/14	Designated States (National): AU CA JP
AU 9481091	A		G06F-011/14	Based on patent WO 9511483
JP 9504130	W	17	G06F-012/14	Based on patent WO 9511483
EP 650122	B1	F 11	G06F-011/14	Designated States (Regional): AT BE CH DE DK ES GB GR IE IT LI LU MC NL PT SE
DE 69409197	E		G06F-011/14	Based on patent EP 650122
ES 2117228	T3		G06F-011/14	Based on patent EP 650122
AU 701007	B		G06F-011/14	Previous Publ. patent AU 9481091 Based on patent WO 9511483
CA 2174653	C	F	G06F-011/14	Based on patent WO 9511483
FR 2711816	A1		G06F-013/00	

Abstract (Basic): EP 650122 A

The **backup** system operates with **data** stored in file format on local bulk memory in individual computers. The stored **data** is read (11) and files modified since the last **backup** identified. Altered files are enciphered (15) and compressed (31) before transmission over an ISDN communication link (1).

When the **data** is received at a central **data storage** it is automatically numbered under control of the processor of the central **storage** computer.

USE/ADVANTAGE Centralised **backup** of **data** held on personal computers. Easily used, reliable and secure system.

Dwg.1/4

Title Terms: REMOTE; BACK; UP; DEVICE ; DIGITAL; DATA ; CENTRAL; DATA ; STORAGE ; LOCAL; PROGRAM ; ENCIPHER; COMPRESS; INITIATE; TRANSFER; ISDN; LINK; FILE; MODIFIED; LAST

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-012/14; G06F-013/00
International Patent Class (Additional): G06F-009/06; G06F-012/00;
G06F-013/38; G06F-015/00

File Segment: EPI

22/5/50 (Item 39 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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010207955 **Image available**

WPI Acc No: 1995-109209/199515

XRPX Acc No: N95-086340

Data processing reset appts in integrated circuit microprocessors - has status register for holding data indicative of processing status and processing status register storage device responsive to reset signal for storing latest data

Patent Assignee: ADVANCED RISC MACHINES LTD (ADRI-N); JAGGAR D V (JAGG-I)

Inventor: JAGGAR D V

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2281986	A	19950322	GB 9319223	A	19930915	199515 B
JP 7219809	A	19950818	JP 94220034	A	19940914	199542
GB 2281986	B	19970806	GB 9319223	A	19930915	199734
US 5680599	A	19971021	US 94301790	A	19940907	199748
			US 95585247	A	19951222	

Priority Applications (No Type Date): GB 9319223 A 19930915

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2281986	A	18		G06F-011/34	
JP 7219809	A	8		G06F-011/28	
US 5680599	A	9		G06F-009/46	Cont of application US 94301790
GB 2281986	B			G06F-011/34	

Abstract (Basic): GB 2281986 A

The appts includes an instruction decoder for decoding instruction code words, a **program** counter for indicating an instruction address of an instruction code word to be decoded. A reset circuit is responsive to a reset signal for triggering resetting of the appts.

A **program** counter storage **device** is responsive to reset signal for storing a latest instruction address from the **program** counter prior to occurrence of reset signal. The appts further includes a number of data registers for holding data to be manipulated, which are cleared as result of the reset signal.

USE/ADVANTAGE - In recovery of system after malfunction or crash, partic during hardware and **software** development. Exclusion locking of processor.

Dwg.1/5

Title Terms: DATA; PROCESS; RESET; APPARATUS; INTEGRATE; CIRCUIT; MICROPROCESSOR; STATUS; REGISTER; HOLD; DATA; INDICATE; PROCESS; STATUS; PROCESS; STATUS; REGISTER; STORAGE; **DEVICE** ; RESPOND; RESET; SIGNAL; STORAGE; LATE; DATA

Derwent Class: T01

International Patent Class (Main): G06F-009/46; G06F-011/28; G06F-011/34

International Patent Class (Additional): G06F-001/24; G06F-011/14

File Segment: EPI

22/5/51 (Item 40 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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009644492 **Image available**

WPI Acc No: 1993-338041/199343

XRXPX Acc No: N93-261238

Incremental back-up copying of data in data processing system - performing back-up copying on storage subsystem concurrent with application execution by first suspending application execution only long enough to form logical to physical address concordance

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: EASTRIDGE L E; KERN R F; RATLIFF J M

Number of Countries: 005 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 566966	A2	19931027	EP 93105991	A	19930413	199343 B
US 5263154	A	19931116	US 92871466	A	19920420	199347
EP 566966	A3	19950308	EP 93105991	A	19930413	199542
EP 566966	B1	19970709	EP 93105991	A	19930413	199732
DE 69311952	E	19970814	DE 611952	A	19930413	199738
			EP 93105991	A	19930413	
JP 3197382	B2	20010813	JP 9316574	A	19930203	200148
US 37601	E	20020319	US 92871466	A	19920420	200227
			US 95559509	A	19951115	

Priority Applications (No Type Date): US 92871466 A 19920420; US 95559509 A 19951115

Cited Patents: No-SR.Pub; 1.Jnl.Ref; WO 8601018

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 566966	A2	E	13	G06F-011/14	
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Designated States (Regional): DE FR GB

US 5263154	A	11		G06F-011/00	
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EP 566966	A3			G06F-011/14	
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EP 566966	B1	E	15	G06F-011/14	
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Designated States (Regional): DE FR GB

DE 69311952	E			G06F-011/14	Based on patent EP 566966
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JP 3197382	B2		12	G06F-012/00	Previous Publ. patent JP 6083677
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US 37601	E			G06F-011/00	Reissue of patent US 5263154
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Abstract (Basic): EP 566966 A

The data processing method involves suspending application execution within data processing system at a first point in time. Forming a dataset logical to physical storage system address concordance for the designated datasets and resuming application execution thereafter.

Physically backing up the datasets within one or more storage subsystems on a scheduled or opportunistic basis by copying the datasets from one storage subsystem to alternate storage subsystem locations. Storing an indication of each initiated application update to the datasets which occurs after the first point in time.

ADVANTAGE - Provides an improved method and system for maintaining continued availability of datasets in external storage associated with accessing data processing systems.

Dwg.4/7

Title Terms: INCREMENT; BACK-UP; COPY; DATA; DATA; PROCESS; SYSTEM; PERFORMANCE; BACK-UP; COPY; STORAGE; SUBSYSTEM; CONCURRENT; APPLY; EXECUTE; FIRST; SUSPENSION; APPLY; EXECUTE; LONG; FORM; LOGIC; PHYSICAL; ADDRESS; CONCORDANCE

Derwent Class: T01

International Patent Class (Main): G06F-011/00; G06F-011/14 ; G06F-012/00

File Segment: EPI

22/5/52 (Item 41 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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009594448
WPI Acc No: 1993-287994/199336
XRXPX Acc No: N93-222194

Sidefile status polling method in time zero backup copy process - involves periodically appending side file status query to dat retrieval command sequency and selectively accessing and copying sidefiles in response to determination of data presence within sub system memory
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)
Inventor: COHN O; HARTUNG M H; MCCUALEY J N; MICKA W F; MIKKELSEN C W; NAGIN K M; NOVICK Y; WINOKUR A

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5241669	A	19930831	US 92871786	A	19920420	199336 B
EP 566964	A2	19931027	EP 93105989	A	19930413	199343
EP 566964	A3	19950308	EP 93105989	A	19930413	199542
EP 566964	B1	19970806	EP 93105989	A	19930413	199736
DE 69312781	E	19970911	DE 612781	A	19930413	199742
			EP 93105989	A	19930413	
US 37364	E	20010911	US 92871786	A	19920420	200154
			US 95521712	A	19950831	

Priority Applications (No Type Date): US 92871786 A 19920420; US 95521712 A 19950831

Cited Patents: 1.Jnl.Ref; EP 399560

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5241669	A	12		G06F-011/00	
EP 566964	A2	E	14	G06F-011/14	
				Designated States (Regional): DE FR GB	
EP 566964	A3			G06F-011/00	
EP 566964	B1	E	15	G06F-011/14	
				Designated States (Regional): DE FR GB	
DE 69312781	E			G06F-011/14	Based on patent EP 566964
US 37364	E			G06F-011/00	Reissue of patent US 5241669

Abstract (Basic): US 5241669 A

The method involves forming a data set logical-to- physical system address concordance for the designated data sets to be utilised to administer copying of the designated data sets. Any application initiated update is processed at the storage subsystem to uncopied portions of the designated data sets by temporarily deferring the updates, writing sidefiles of the designated data sets or portions thereof affected by the update to the subsystem memory and thereafter writing the updates to the storage subsystem.

The designated data sets are accessed and copied within the storage subsystem on a scheduled or opportunistic basis by issuing data retrieval command sequences from the data processing system to the storage subsystems. A side file status query is periodically appended to a data retrieval command sequence wherein a determination of data presence within the subsystem memory may be accomplished. The side files are selectively accessed and copied in response to a determination of data presence within the subsystem memory.

ADVANTAGE - Provides enhanced efficiency of backup copying of designated data sets.

Dwg.5/6

Title Terms: STATUS; POLL; METHOD; TIME; ZERO; COPY; PROCESS; PERIOD; SIDE; FILE; STATUS; QUERY; DAT; RETRIEVAL; COMMAND; SEQUENCE; SELECT; ACCESS; COPY; RESPOND; DETERMINE; DATA; PRESENCE; SUB; SYSTEM; MEMORY
Derwent Class: T01
International Patent Class (Main): G06F-011/00; G06F-011/14
File Segment: EPI

22/5/53 (Item 42 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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009594447
WPI Acc No: 1993-287993/199336
XRPX Acc No: N93-221557

Automatic termination or resumption of backup copy sessions in data processing system - involves entering status indication of successful completion of backup copy session within data processing system and periodically reviewing indications within activity table to determine status of backup copy session

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: EASTRIDGE L E; KERN R F; MICKA W F; MIKKELSEN C W; RATLIFF J M

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5241668	A	19930831	US 92871363	A	19920420	199336 B
EP 566965	A2	19931027	EP 93105990	A	19930413	199343
EP 566965	A3	19950308	EP 93105990	A	19930413	199542
US 37038	E	20010130	US 92871363	A	19920420	200108
			US 95521600	A	19950831	

Priority Applications (No Type Date): US 92871363 A 19920420; US 95521600 A 19950831

Cited Patents: 2.Jnl.Ref

Patent Details:

Patent No	Kind	Ln	Pg	Main IPC	Filing Notes
US 5241668	A	13		G06F-013/20	
EP 566965	A2	E	14	G06F-011/14	
				Designated States (Regional): DE FR GB	
EP 566965	A3			G06F-013/20	
US 37038	E			H03K-019/003	Reissue of patent US 5241668

Abstract (Basic): US 5241668 A

The method involves entering a status indication into activity tables associated with **storage** subsystems and **devices** within a **data** processing system in response to initiation of a **backup** copy session. Status indications are then entered upon successful completion of a **backup** copy session within the **data** processing system. The indications within the activity tables are reviewed to determine the status of a **backup** copy session upon restarting a resource manager, abnormal termination of a **backup** copy **program**, or an operating system initial **program** load. If a **backup** copy session has been initiated but not completed, the **backup** copy session is then terminated. The indications within the activity tables are also reviewed to determine the status of a **backup** copy session if a reset notification is raised by a **storage** subsystem. The tracks extends which are active for a volume associated with a particular session identification are determined.

A comparison is then made between the tracks extends which are active and the volume and extent **information** associated with a

physical session identification. If a match exists between the tracks extends which are active and the volume and extent **information** associated with a physical session identification, the **backup** copy session resumes. If a match does not exist, the **backup** copy session is terminated.

ADVANTAGE - Provides copying of records in external **storage** concurrent with dramatically shortened suspension of **data** processing system **application** execution occasioned by copying

Dwg.5,7/7

Title Terms: AUTOMATIC; TERMINATE; RESUME; COPY; SESSION; **DATA** ; PROCESS; SYSTEM; ENTER; STATUS; INDICATE; SUCCESS; COMPLETE; COPY; SESSION; **DATA** ; PROCESS; SYSTEM; PERIOD; INDICATE; ACTIVE; TABLE; DETERMINE; STATUS; COPY; SESSION

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-013/20; H03K-019/003

File Segment: EPI

22/5/54 (Item 43 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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009459142 **Image available**

WPI Acc No: 1993-152668/199318

XRPX Acc No: N93-116807

CPU implemented back-up copying of designated data sets - suspending execution only long enough to form logical to physical address concordance, and thereafter backing-up when convenient

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC); IBM CORP (IBMC); IBM DEUT GMBH (IBMC)

Inventor: MIKKELSEN C W; MICKESON C W

Number of Countries: 023 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Aplicat No	Kind	Date	Week	
WO 9308529	A1	19930429	WO 92EP2127	A	19920916	199318	B
CA 2071346	A	19930419	CA 2071346	A	19920616	199327	
CN 1071770	A	19930505	CN 92110772	A	19920918	199409	
EP 608255	A1	19940803	EP 92919444	A	19920916	199430	
			WO 92EP2127	A	19920916		
CN 1025381	C	19940706	CN 92110772	A	19920918	199532	
KR 9514175	B1	19951122	KR 9216989	A	19920918	199903	

Priority Applications (No Type Date): US 91781044 A 19911018

Cited Patents: EP 410630; US 4686620; US 4752910

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9308529 A1 29 G06F-011/14

Designated States (National): CS DE HU PL RU UA

Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL
SE

EP 608255 A1 E 2 G06F-011/14 Based on patent WO 9308529

Designated States (Regional): DE FR GB

CA 2071346 A G06F-013/10

CN 1071770 A G06F-009/44

CN 1025381 C G06F-009/44

KR 9514175 B1 G06F-012/00

Abstract (Basic): WO 9308529 A

The back-up method is concurrent with CPU **application** execution. It involves suspending **application** execution and forming a data set

logical-to-physical storage sub-system address concordance and resuming execution thereafter. The data sets are backed-up on a scheduled or opportunistic basis.

At the storage sub-system any application initiated updates are processed to uncopied data sets. Side files of update dataset portions are written to storage in the concordance defined back-up copy order.

ADVANTAGE - Reduced suspension time of CPU application execution.

Dwg.4/6

Title Terms: CPU; IMPLEMENT; BACK-UP; COPY; DESIGNATED; DATA; SET; SUSPENSION; EXECUTE; LONG; FORM; LOGIC; PHYSICAL; ADDRESS; CONCORDANCE; CONVENIENT

Derwent Class: T01

International Patent Class (Main): G06F-009/44; G06F-011/14 ; G06F-012/00; G06F-013/10

International Patent Class (Additional): G06F-001/00; G06F-009/312

File Segment: EPI

22/5/55 (Item 44 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008682822

WPI Acc No: 1991-186841/199126

Related WPI Acc No: 1995-394513

XRPX Acc No: N91-143224

Fault-tolerant computer with operating method - employing multiple identical CPUs executing same instruction stream with multiple memory modules storing duplicates of the data

Patent Assignee: TANDEM COMPUTERS INC (TAND)

Inventor: BANTON R; BEREITER T; CUTTS R; JEWETT D E; POZDRO J; VETTER B; WESTBROOK D C; BANTON R G; CUTTS R W; DEBACKER K C; FEY K W; MEHTA N A; ALDRIDGE D; NORWOOD P C; WEBSTER P

Number of Countries: 017 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 433979	A	19910626	EP 90124582	A	19901218	199126 B
AU 9068215	A	19910627				199133
CA 2032067	A	19910623				199136
EP 433979	A3	19930526	EP 90124582	A	19901218	199403
US 5295258	A	19940315	US 89455218	A	19891222	199411
			US 90461250	A	19900105	
US 5317752	A	19940531	US 89455127	A	19891222	199421
			US 90461402	A	19900105	
			US 92977734	A	19921116	
US 5327553	A	19940705	US 89455065	A	19891222	199426
			US 92973202	A	19921106	
JP 3030658	B2	20000410	JP 90405899	A	19901225	200023
JP 2000112584	A	20000421	JP 90405899	A	19901225	200031
			JP 99198166	A	19901225	
JP 3301992	B2	20020715	JP 90405899	A	19901225	200253
			JP 99198166	A	19901225	

Priority Applications (No Type Date): US 90461402 A 19900105; US 89455065 A 19891222; US 89455127 A 19891222; US 89455218 A 19891222; US 90461250 A 19900105; US 92977734 A 19921116; US 92973202 A 19921106

Cited Patents: NoSR.Pub; 1.Jnl.Ref; EP 299375; US 3665173; US 3921149

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
EP 433979 A 2

Designated States (Regional): AT BE CH DE ES FR GB GR IT LI LU NL SE

EP 433979	A3	2				
US 5295258	A	39	G06F-011/18	CIP of application US 89455218		
US 5317752	A	32	G06F-011/00	CIP of application US 89455127		
				Cont of application US 90461402		
US 5327553	A	28	G06F-015/16	Cont of application US 89455065		
JP 3030658	B2	68	G06F-012/16	Previous Publ. patent JP 6208477		
JP 2000112584	A	60	G06F-001/30	Div ex application JP 90405899		
JP 3301992	B2	61	G06F-001/30	Div ex application JP 90405899		
				Previous Publ. patent JP 2000112584		

Abstract (Basic): EP 433979 A

An error is detected in one of the CPUs which is then isolated from the system. Execution of the instruction stream is continued and the global memory units are accessed by other CPUs. The isolated CPU is reintegrated after being rendered operative by first bringing it into sync with the other CPUs, then restoring the state and local memory of the CPU to be identical to the others.

USE - Detection and reintegration of faulty components, and shutdown and restart procedure in event of power failure. (2pp Dwg.No.1/16)

Title Terms: FAULT; TOLERATE; COMPUTER; OPERATE; METHOD; EMPLOY; MULTIPLE; IDENTICAL; CPU; EXECUTE; INSTRUCTION; STREAM; MULTIPLE; MEMORY; MODULE; STORAGE ; DUPLICATE; DATA

Derwent Class: T01

International Patent Class (Main): G06F-001/30; G06F-011/00; G06F-012/16; G06F-015/16

International Patent Class (Additional): G06F-011/14 ; G06F-011/16; G06F-011/18; G06F-011/20

File Segment: EPI

22/5/56 (Item 45 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008547352 **Image available**

WPI Acc No: 1991-051415/199107

Related WPI Acc No: 1991-031651

XRPX Acc No: N91-039781

Method of operating data processing system - uses back - up system to record every change made to storage medium as change occurs

Patent Assignee: INTELLIGENCE QUOTIENT INT LTD (INTE-N); CHEYENNE ADVANCED TECHNOLOGY LTD (CHEY-N); INTELLIGENCE QUOTIE (INTE-N)

Inventor: MALCOLM P B

Number of Countries: 022 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9101026	A	19910124				199107	B
AU 9058595	A	19910206				199119	
EP 483174	A	19920506	EP 90909755	A	19900628	199219	
JP 4507015	W	19921203	JP 90509759	A	19900628	199303	
			WO 90GB997	A	19900628		
AU 633775	B	19930204	AU 9058595	A	19900628	199312	
WO 9101026	A3	19910221	WO 90GB997	A	19900628	199507	
EP 483174	B1	19951122	EP 90909755	A	19900628	199551	
			WO 90GB997	A	19900628		
DE 69023770	E	19960104	DE 623770	A	19900628	199606	
			EP 90909755	A	19900628		
			WO 90GB997	A	19900628		
ES 2082860	T3	19960401	EP 90909755	A	19900628	199621	
CA 2063379	C	19980210	CA 2063379	A	19900628	199817	

Priority Applications (No Type Date): US 89435138 A 19891113; GB 8915875 A 19890711

Cited Patents: No-SR.Pub; 2.Jnl.Ref; EP 259912; EP 351109; NoSR.Pub

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9101026	A		25		
				Designated States (National):	AU BR CA FI HU JP KR NO SU
				Designated States (Regional):	AT BE CH DE DK ES FR GB IT LU NL SE
EP 483174	A	E	25		Based on patent WO 9101026
				Designated States (Regional):	AT BE CH DE DK ES FR GB IT LI LU NL SE
JP 4507015	W		9	G06F-012/00	Based on patent WO 9101026
AU 633775	B			G06F-011/16	Previous Publ. patent AU 9058595
					Based on patent WO 9101026
EP 483174	B1	E	19	G06F-017/30	Based on patent WO 9101026
				Designated States (Regional):	AT BE CH DE DK ES FR GB IT LI LU NL SE
DE 69023770	E			G06F-017/30	Based on patent EP 483174
					Based on patent WO 9101026
ES 2082860	T3			G06F-017/30	Based on patent EP 483174
CA 2063379	C			G06F-011/08	

Abstract (Basic): WO 9101026 A

The method of operating a **data** processing system includes a random access memory a central processing unit and a non-volatile **storage device**, in which the central processing unit, operating according to instructions stored in the memory, is caused to write **data** periodically to basic **storage** forming at least part of the **storage device**.

For a set of such write operations the central processing unit is caused by the instructions to execute a set of corresponding **backup** write operations to write the same **data** to **backup storage**.

ADVANTAGE - Normal use of computer substantially unaffected by **backup** process, restore process avoids bad sectors of destination **storage**. (25pp Dwg.No.1/5)

Title Terms: METHOD; OPERATE; **DATA** ; PROCESS; SYSTEM; BACK; UP; SYSTEM; RECORD; CHANGE; MADE; **STORAGE** ; MEDIUM ; CHANGE; OCCUR

Derwent Class: T01

International Patent Class (Main): G06F-011/08; G06F-011/16; G06F-012/00; G06F-017/30

International Patent Class (Additional): **G06F-011/14** ; G06F-015/40

File Segment: EPI

22/5/57 (Item 46 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008527567 **Image available**

WPI Acc No: 1991-031651/199105

Related WPI Acc No: 1991-051415

XRPX Acc No: N91-024474

Storage back - up **system for personal computer - writes data periodically to back - up storage as sequential of write operators or software routine**

Patent Assignee: INTELLIGENCE QUOTIENT INT LTD (INTE-N); INTELLIGENCE QUOTIE (INTE-N)

Inventor: MALCOLM P B

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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GB 2234373	A	19910130	GB 8925704	A	19891114	199105	B
US 5086502	A	19920204	US 89435138	A	19891113	199208	
AU 633775	B	19930204	AU 9058595	A	19900628	199312	
WO 9101026	A3	19910221	WO 90GB997	A	19900628	199507	

Priority Applications (No Type Date): GB 8915875 A 19890711; US 89435138 A 19891113

Cited Patents: 2.Jnl.Ref; EP 259912; EP 351109

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
AU 633775	B		G06F-011/16	Previous Publ. patent AU 9058595 Based on patent WO 9101026

Abstract (Basic): GB 2234373 A

A method of operating a data processing system, in particular a micro-computer, comprises a backup process in which a copy of every change made to a storage medium is recorded as the change occurs. Write operations for writing data to the storage medium are each preceded by a backup write operation to backup storage means, successive backup write operations being controlled so as to be stored as a sequential list in the backups storage means in the form of location blocks and data blocks to avoid the overwriting occurring in the storage medium.

These backup write operations are executed at the level of the basic input/output system (BIOS) of the microcomputer in such a manner that normal use of the computer is unaffected. The method also includes a restore process in which bad sectors of a destination storage device are avoided by translating the file allocation table (FAT) and directories of the original data.

USE/ADVANTAGE - Providing copies of data stored in storage devices to guard against possibility of storage device becoming faulty or data becoming corrupted, lost or infected by computer virus. Especially concerned with provision of backups for personal computers. (15pp Dwg.No.4/5)

Title Terms: STORAGE ; BACK; UP; SYSTEM; PERSON; COMPUTER; WRITING; DATA ; PERIOD; BACK; UP; STORAGE ; SEQUENCE; WRITING; OPERATE; SOFTWARE ; ROUTINE

Derwent Class: T01

International Patent Class (Main): G06F-011/16

International Patent Class (Additional): G06F-011/14 ; G06F-012/16; G06F-015/40

File Segment: EPI

22/5/58 (Item 47 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008435157 **Image available**

WPI Acc No: 1990-322157/199043

XRXPX Acc No: N90-246775

Initial process system after cut-off of power source - has ROM store program for executing initial processing and for executing main processing using RAM

Patent Assignee: SANYO ELECTRIC CO LTD (SAOL); SANYO ELECTRIC CO (SAOL)

Inventor: HOSOYA M; KATSUKI H; SHIMIZU M

Number of Countries: 005 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 393631	A	19901024	EP 90107361	A	19900418	199043 B

EP 393631	A3	19920226	EP 90107361	A	19900418	199324
US 5227981	A	19930713	US 90510776	A	19900418	199329
			US 92885054	A	19920513	
EP 393631	B1	19961030	EP 90107361	A	19900418	199648
DE 69029005	E	19961205	DE 629005	A	19900418	199703
			EP 90107361	A	19900418	
KR 9615777	B1	19961121	KR 905567	A	19900420	199930

Priority Applications (No Type Date): JP 89233295 A 19890908; JP 89100755 A 19890420; JP 89100756 A 19890420

Cited Patents: NoSR.Pub; EP 213577; XEP 256815

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 393631	A	17			
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Designated States (Regional): DE FR GB

EP 393631	A3	17			
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US 5227981	A	14	G06F-015/56	Cont of application US 90510776	
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EP 393631	B1	E	16	G06F-011/14	
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Designated States (Regional): DE FR GB

DE 69029005	E		G06F-011/14	Based on patent EP 393631	
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KR 9615777	B1		G06F-001/30		
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Abstract (Basic): EP 393631 A

A start processing system after cutoff of a power source of the present includes a read-only memory (ROM) for storing a **program** for executing the initial processing, a **program** for executing the main processing and for storing initial **data**, a random access memory (RAM) for storing and reading **data** when the main processing is executed and a **backup device** for keeping driving of the RAM for a predetermined time after cutoff of the power source.

The **program** for executing the initial start **program** includes a **program** for comparing **data** stored at a predetermined address area of the RAM memory with **data** stored at a predetermined address area of the ROM and for moving the initial **data** stored in the ROM to the RAM when the result of comparison of the **data** proves different.

USE - A system using a processor or microprocessor for executing a predetermined initial processing and then a main processing based on a predetermined **program** when a reset signal is inputted.

Dwg.1/7

Title Terms: INITIAL; PROCESS; SYSTEM; AFTER; CUT; POWER; SOURCE; ROM; **STORAGE** ; **PROGRAM** ; EXECUTE; INITIAL; PROCESS; EXECUTE; MAIN; PROCESS; RAM

Derwent Class: T01

International Patent Class (Main): G06F-001/30; **G06F-011/14** ; G06F-015/56

International Patent Class (Additional): G06F-011/00

File Segment: EPI

22/5/59 (Item 48 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007865036

WPI Acc No: 1989-130148/198917

XRPX Acc No: N89-099182

Automatic back - up of computer data - using hardware unit to detect back - up request and to initiate operation of back - up device

Patent Assignee: COED AUTOMATIQUE (COED-N)

Inventor: BAKAHER J; LEMOUNIER P; MARANT C; NOLL T; VERHEECKE E; BAKAHER J P

Number of Countries: 003 Number of Patents: 005

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 8903558	A	19890420	WO 88FR3558	A	19881007	198917 B
FR 2621720	A	19890414				198922
JP 2501685	W	19900607				199029
EP 388418	A	19900926	EP 88909557	A	19881007	199039
US 5200998	A	19930406	US 89368309	A	19890609	199316
			US 92826245	A	19920117	

Priority Applications (No Type Date): FR 8713978 A 19871009

Cited Patents: 4.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 8903558	A	F	28		
US 5200998	A		12	H04L-009/00	Cont of application US 89368309

Abstract (Basic): WO 8903558 A

The automatic **back up** proceeds in the following stages: the **data** to be saved is predetermined and stored. The **application program** is made to incorporate **software** for detection and execution of the request to save the **data**. A save initiation signal is generated at the computer interface port to initiate the automatic **back - up**, the **data** being stored on a reliable **storage medium**.

The interface ports (9,10) of the computer are linked to the port (8) of an external electronic **back - up** controller (4) which monitors the computer port for a **back - up** initiate signal and delivers a start signal to the **storage device** when **back - up** is required.

USE/ADVANTAGE - Provides automatic **back - up** of hard discs in computer installations onto tape streamer or printer, increasing **data** safety.

Dwg.4/7

Title Terms: AUTOMATIC; BACK; UP; COMPUTER; DATA ; HARDWARE; UNIT; DETECT; BACK; UP; REQUEST; INITIATE; OPERATE; BACK; UP; DEVICE

Derwent Class: T01

International Patent Class (Main): H04L-009/00

International Patent Class (Additional): G06F-011/14 ; G06F-012/16

File Segment: EPI

22/5/60 (Item 49 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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007744008 **Image available**

WPI Acc No: 1989-009120/198902

XRPX Acc No: N89-006981

Page fault recovery system for vector processing operations - permits completion of vector operation instruction when fault is signalled and inhibits initiation of new vector operation instruction

Patent Assignee: DIGITAL EQUIP CORP (DIGI)

Inventor: BHANDARKAR D; CARDOZA W; CUTLER D N; ORBITS D A; WITEK R T

Number of Countries: 014 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 297893	A	19890104	EP 88305991	A	19880630	198902 B
AU 8818636	A	19890105				198908
BR 8803380	A	19890124				198909
CN 1030487	A	19890118				198950
US 5063497	A	19911105	US 8769372	A	19870701	199147

CA 1302573	C	19920602	CA 570847	A	19880630	199228
EP 297893	A3	19920122	EP 88305991	A	19880630	199322
EP 297893	B1	19961113	EP 88305991	A	19880630	199650
DE 3855659	G	19961219	DE 3855659	A	19880630	199705
			EP 88305991	A	19880630	
IE 79236	B	19980422	IE 881988	A	19880630	199822

Priority Applications (No Type Date): US 8769372 A 19870701
 Cited Patents: No-SR.Pub; 1.Jnl.Ref; EP 147858; EP 205809; EP 333365; US 4791560

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 297893	A	E	12		
		Designated States (Regional):		CH DE FR GB IT LI NL SE	
US 5063497	A		14		
EP 297893	B1	E	24	G06F-015/80	
		Designated States (Regional):		CH DE FR GB IT LI NL SE	
DE 3855659	G			G06F-015/80	Based on patent EP 297893
CA 1302573	C			G06F-011/14	
IE 79236	B			G06F-015/80	

Abstract (Basic): EP 297893 A

A vector restart frame for recovery from a page fault includes a signal group (401) with all logic zeros except for the first three bit positions. These positions identify an access violation, a fault or read, a fault on write, translation invalid or vector alignment and instruction pending. The vector length or number of **data** elements involved is designated in a further signal group (402). The initial base address (403), stride or displacement (404) between successive **data** elements, and the related virtual address (405) in the page of the missing **data** element causing the exception are designated in respective signal groups.

The vector load or store instruction which prompted the exception is signalled in a further group (406) and the processor status in a yet further group (407). In the status group the field of bit position two (VRF) is of particular significance in indicating that a previous vector restart frame has been saved. The virtual address of the next instruction provides the final group (408) of the frame.

ADVANTAGE - Overlapping vector and scalar operation instructions can be executed

Title Terms: PAGE; FAULT; RECOVER; SYSTEM; VECTOR; PROCESS; OPERATE; PERMIT ; COMPLETE; VECTOR; OPERATE; INSTRUCTION; FAULT; SIGNAL; INHIBIT; INITIATE; NEW; VECTOR; OPERATE; INSTRUCTION

Derwent Class: T01

International Patent Class (Main): G06F-011/14 ; G06F-015/80

International Patent Class (Additional): G06F-009/30; G06F-009/38; G06F-012/00; G06F-015/06

File Segment: EPI

22/5/61 (Item 50 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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007705450 **Image available**
 WPI Acc No: 1988-339382/198848

XRPX Acc No: N88-257347

Microprogrammed systems software instruction undo - restores contents of base register to its original value if operand is not in physical memory

Patent Assignee: BULL HN INFORMATION SYSTEMS INC (HONE); HONEYWELL BULL INC (HONE); INTEL CORP (ITLC)

Inventor: JOYCE T F; KELLY R P; SHEN J

Number of Countries: 012 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 292791	A	19881130	EP 88107610	A	19880511	198848 B
AU 8816052	A	19881124				198903
NO 8802133	A	19881212				198904
US 4901222	A	19900213	US 8752108	A	19870519	199013
CA 1287177	C	19910730				199135
US 5148530	A	19920915	US 8752108	A	19870519	199240
			US 89403554	A	19890906	
NO 174027	B	19931122	NO 882133	A	19880516	199401
KR 9303399	B1	19930426	KR 885832	A	19880519	199421
EP 292791	B1	19941130	EP 88107610	A	19880511	199501
DE 3852209	G	19950112	DE 3852209	A	19880511	199507
			EP 88107610	A	19880511	

Priority Applications (No Type Date): US 8752108 A 19870519; US 89403554 A 19890906

Cited Patents: No-SR.Pub; 01Jnl.Ref; EP 212132; US 3162841

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 292791	A	E	13		

Designated States (Regional): DE FR GB IT SE

US 4901222	A	11		
US 5148530	A	10	G06F-009/00	Div ex application US 8752108
				Div ex patent US 4901222

NO 174027	B		G06F-012/08	Previous Publ. patent NO 8802133
EP 292791	B1	E	15 G06F-009/30	

Designated States (Regional): DE FR GB IT SE

DE 3852209	G		G06F-009/30	Based on patent EP 292791
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KR 9303399	B1		G06F-009/30	
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Abstract (Basic): EP 292791 A

A virtual memory management unit (34) translates a virtual address described in the instruction into a **physical address** of the main memory (50), coupled with it and the cache memory (36) to a 32-bit BP bus (32). A register file (2) is coupled to a stack for storing the low-order portion of an operand address, and to a memory unit generating an interrupt if the operand is not stored therein.

The control store (38) responds with an alternative control signal sequence following such an interrupt, and to a carry signal from an arithmetic unit (4) with a sequence reinstating the unmodified memory address.

USE/ADVANTAGE - In data processing system using virtual memory address scheme. Improved throughput is safeguarded without performance degradation incurred in exclusively firmware operation.

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Title Terms: MICROPROGRAM; SYSTEM; **SOFTWARE** ; INSTRUCTION; UNDO; RESTORATION; CONTENT; BASE; REGISTER; ORIGINAL; VALUE; OPERAND; PHYSICAL; MEMORY

Derwent Class: T01

International Patent Class (Main): G06F-009/30; G06F-012/08

International Patent Class (Additional): G06F-007/00; G06F-009/32; G06F-009/38; **G06F-011/14** ; G06F-017/00

File Segment: EPI

22/5/62 (Item 51 from file: 350)

Bode Akintola

20-Aug-04

EIC 3600

DIALOG(R) File 350:Derwent WPIX
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007542980 **Image available**

WPI Acc No: 1988-176912/198826

XRPX Acc No: N88-135194

Computation data stack recovery appts. in calculator - has memory
coupled to data stack to receive and store data is used by calculator

Patent Assignee: HEWLETT-PACKARD CO (HEWP)

Inventor: GRODD L W; WICKES W C

Number of Countries: 004 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 272821	A	19880629	EP 87310608	A	19871202	198826 B
US 4821228	A	19890411	US 86946543	A	19861224	198917
CA 1277771	C	19901211				199104
EP 272821	B1	19940511	EP 87310608	A	19871202	199419
DE 3789803	G	19940616	DE 3789803	A	19871202	199425
			EP 87310608	A	19871202	
KR 9506618	B1	19950619	KR 8714751	A	19871223	199713

Priority Applications (No Type Date): US 86946543 A 19861224

Cited Patents: 2.Jnl.Ref; A3...9007; No-SR.Pub; US 3533082

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 272821	A	E	35		
US 4821228	A		30		
EP 272821	B1	E	36	G06F-011/14	
DE 3789803	G			G06F-011/14	Based on patent EP 272821
KR 9506618	B1			G06F-011/00	

Abstract (Basic): EP 272821 A

The calculator provides an operator stock which stores operators sequentially, and a data stock which stores data sequentially. The calculating system is coupled to the stocks and arranged for performing calculations using the operators stored on the operator stock and the data stored on the data stock. A replication of the operators of the sequence of operators stored on the operator stock is stored on the operator back - up stock. Similarly for data , a back - up data stock is provided.

In response to actuation of the UNDO key the contents of the operator stock end of the data stock are exchanged with those of the operator back - up stock and the data back - up stock.

ADVANTAGE -Can recover from accidental or incorrect key actuation or command execution, operator is not required to re-enter all arguments for each operation.

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Title Terms: COMPUTATION; DATA ; STACK; RECOVER; APPARATUS; CALCULATE; MEMORY; COUPLE; DATA ; STACK; RECEIVE; STORAGE ; DATA ; CALCULATE

Derwent Class: T01

International Patent Class (Main): G06F-011/00 ; G06F-011/14

International Patent Class (Additional): G06F-015/02; G06F-015/06

File Segment: EPI

22/5/63 (Item 52 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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003957370

WPI Acc No: 1984-102914/198417

XRXPX Acc No: N84-076405

Error recovery in micro- programme controlled unit - has retry operation carried out under interlock mode, and address specifying detected erroneous microinstruction recorded

Patent Assignee: FUJITSU LTD (FUIT)

Inventor: SATO K; SHIMIZU K

Number of Countries: 009 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 105710	A	19840418	EP 83305828	A	19830928	198417 B
AU 8319559	A	19840405				198421
BR 8305314	A	19840508				198426
ES 8405973	A	19841001				198449
US 4566103	A	19860121	US 83534134	A	19830920	198606
CA 1200909	A	19860218				198612
KR 8601476	B	19860926				198706
EP 105710	B	19880824				198834
DE 3377820	G	19880929				198840

Priority Applications (No Type Date): JP 82168912 A 19820928

Cited Patents: No-SR.Pub; 2.Jnl.Ref; GB 1315673; US 3736566; US 4112502; US 4231089

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 105710	A	E	17		
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Designated States (Regional): DE FR GB

EP 105710	B	E		
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Designated States (Regional): DE FR GB

Abstract (Basic): EP 105710 A

The unit includes a control storage for microinstructions. A control register stores an address for specifying the microinstruction and microinstruction register as tags. The two registers are in multistage connection. An error detection and correction circuit checks the validity of each microinstruction. A retry operation is performed for the related microinstructions including the detected erroneous microinstruction under an interlock mode, in which the erroneous microinstruction and the related preceding microinstructions are successively subjected to error detection and correction.

This is followed by re-execution, recording an address specifying the erroneous microinstruction. An interlock mode operation is performed for only the erroneous microinstruction when the address is again accessed. The interlock mode is created by doubling one of the steps defined by a machine cycle of the unit. This enables recovery in short time.

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Title Terms: ERROR; RECOVER; MICRO; PROGRAMME ; CONTROL; UNIT; RETRY; OPERATE; CARRY; INTERLOCKING; MODE; ADDRESS; SPECIFIED; DETECT; ERROR; MICROINSTRUCTION; RECORD

Derwent Class: T01

International Patent Class (Additional): G06F-009/22; G06F-011/14

File Segment: EPI